

CALIFORNIA INSTITUTE OF TECHNOLOGY

EARTHQUAKE ENGINEERING RESEARCH LABORATORY

STRONG MOTION EARTHQUAKE ACCELEROGRAMS DIGITIZED AND PLOTTED DATA

VOLUME II - CORRECTED ACCELEROGRAMS AND INTEGRATED
GROUND VELOCITY AND DISPLACEMENT CURVES

PART V - ACCELEROGRAMS IIV314 THROUGH IIV333

REPORT NO. EERL 75-52

A REPORT ON RESEARCH CONDUCTED UNDER A
GRANT FROM THE NATIONAL SCIENCE FOUNDATION

PASADENA, CALIFORNIA

MARCH, 1975

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EARTHQUAKE ENGINEERING RESEARCH LABORATORY

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Ground Velocity and Displacement Curves

Part V - Accelerograms IIV314 through IIV333

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ABSTRACT

The first set of twenty corrected earthquake accelerograms was published in September 1971, as Volume II, Part A, Report No. EERL 71-50, the first report of the Volume II series. That issue also contained introductory material and background information describing the types of corrections used. The corresponding uncorrected data appeared earlier in Volume I, Part A, Report No. EERL 70-20. Both of these reports, containing references related to the records themselves and the various procedures, should be referred to by all users of the data. This issue, Volume II, Part V, Report No. EERL 75-52, contains California records from the Los Angeles and Long Beach areas, San Luis Obispo, various buildings in the San Francisco Bay area, Port Hueneme, Eureka, Castaic, and Sacramento during the years 1933 to 1967. Further records from some of these sites have appeared in other parts of the series.

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PREFACE TO VOLUME II, PART V

This issue of corrected accelerograms and integrated ground velocity and displacement curves contains data from California stations during the years 1933 to 1967. The records are included here in chronological order, and the following series of records are of particular interest.

The Los Angeles Subway Terminal, sub-basement, and the Long Beach Public Utilities Building records complete the set of three records obtained from the Long Beach earthquake of March 10, 1933, and were considered suitable for inclusion in this digitization project. The third is from the Vernon, CMD Building included in Part B, Series reference number B021.

The Hollywood Storage Building penthouse record from the Taft, 1952, earthquake is included to accompany the basement and P.E. lot records appearing in Part A, Series reference numbers A006 and A007.

Nine records are included from a foreshock and two aftershocks of the March 22, 1957 San Francisco earthquake. The aftershock at 1515 PST produced records at the Alexander Building (3 records), Oakland City Hall (2 records) and the Southern Pacific Building (one record, in the basement).

Other records in this issue include the Long Beach Public Utilities Building and the Los Angeles Chamber of Commerce Building (November 14, 1941), San Luis Obispo (November 21, 1952), the Port Hueneme Navy Research and Evaluation Laboratory (March 18, 1957),

Eureka (September 4, 1962), Castaic (July 15, 1965), the Pacific Telephone Building in Sacramento (September 12, 1966), and the 12th floor of the Bethlehem Building in San Francisco (December 18, 1967).

Details of dates and times may be found in the Table of Instrument Characteristics.

NOTES ON THE VOLUME II SERIES

The following includes some general background information describing the Volume II Series.

Contents of the Various Parts. Part A of Volume II, Corrected Accelerograms and Integrated Ground Velocity and Displacement Curves, Report No. EERL 71-50, was published in September 1971 and contained in a general introduction to the series, detailed information on the methods and procedures used which should be consulted by all users of the data. Part B of Volume II, Report No. EERL 72-50, which appeared in February 1973, contained additional references to papers discussing various details of the processing and computing problems. Part C, Report No. EERL 72-51, began the presentation of corrected data for the unusually important series of accelerograms obtained during the San Fernando earthquake of February 9, 1971. All the records considered suitable for standard digitizing have been included in the issues following Part C, and Part S contains the last of the San Fernando records. In Part T a return is made to those records received during the years 1933 to 1968, which continue into Parts U and V. Parts W and X contain the records from the Lytle Creek, California, earthquake of Sept. 12, 1970, and Part Y contains the records of the Borrego Mountain, California, earthquake of April 8, 1968, not already included in Parts A and B. Part Y marks the conclusion of the current digitizing and analysis project.

Component Directions. A description of the naming of component directions for the records was given in Volume II, Part B.

Consistent with this, the component direction, where it appears in this report, refers to the direction of the transducer pendulum motion for the trace to be deflected "up" on the record when viewed in the normal way with time increasing from left to right. During earthquake acceleration measurements the pendulum responds dynamically to an "inertia force" whose direction is opposite to that of the acceleration of the instrument base. It follows that the true ground acceleration will be opposite to the pendulum motion defined above. Consequently, in the following plots the Y-axis scale is inverted so as to retain both the familiar pattern of the accelerograms and the listed component direction.

Description of the Plots and Listings. The format of presentation of the results at the end of this second stage of data processing is the same as in Volume II, Part A. The plots of acceleration, velocity, and displacement appear first, with details of the earthquake, the recording site, and the peak values in the headings. The printout of the corrected accelerograms appears next, in units of mm/sec/sec, at equal time intervals of 0.02 seconds. Identification labels, instrument characteristics, peak values, and initial values are in the headings for each component.

Assessment of Long Period Errors.

- A. San Fernando earthquake data, 70-mm and 35-mm film,
included in Parts C through S

A separate section in Volume II, Part G, Report No. EERL 73-52, entitled "Current Assessment of Long Period Errors" describes the results of a recent investigation of long period displacements

calculated from recorded accelerations. During the course of this study it became evident that the procedures for preparation of 70-mm film and, to a lesser extent, 35-mm film records from the San Fernando earthquake of February 9, 1971, introduced spurious excitations at periods close to the duration of the sectional enlargements. These effects have been removed from all of the 70-mm and 35-mm film records by filtering with a long period limit of 8 seconds rather than the standard cut-off period of 16 seconds in the Volume II correction procedure. The following list of Caltech reference numbers indicates the records from the San Fernando earthquake included in Volume I, Parts C through S, that have been processed with the cut-off period of 8 seconds:

Parts G, H, I: All records in these parts.

Part J: Records J142 and J145 through J150.

Part K: All records.

Part L: Records L166, L167, L168; L172 through L175.

Part M: Records M176, M177, M178; M180 through M184.

Part N: All records.

Part O: Records O198 through O201; O206, O208, O210.

Part P: Records P231 and P232.

Parts Q, R, S: All records in these parts.

A decision was also made at the same time to eliminate a number of very low amplitude accelerograms from further processing (Volume II, III, and IV) reflecting the expectation that the resulting displacement records will be dominated by noise. Their Caltech reference numbers are as follows:

H127; I140; J151, J152; K153 through K156, K161 through K165; O202, O203, O209, O211, O212; P224 through P230.

B. Six inch and twelve inch photographic paper records, included in Parts A through Y.

The decision to eliminate the very low amplitude accelerograms of the San Fernando earthquake, detailed above in Section A, was extended to include the more distant records of the Lytle Creek earthquake, Sep. 12, 1970, whose uncorrected data appeared in Volume I, Part X. This entire Part has been eliminated from further processing. Although this somewhat drastic action was required in this case, nevertheless it is apparent in some of the displacement plots that have reached the Volume II series of reports that some long period noise is still present in the published data. There are no components remaining with periods longer than the cut-off period of 14 seconds (and roll-off termination at 20 seconds), or in the case of 70- and 35-mm film records from the San Fernando earthquake, the cut-off of 8 seconds (and roll-off termination at 10 seconds), but it is evident that for some records these cut-off periods are in fact too long. The cause for this lies in the very low amplitude of acceleration for much of the duration of some of the records and the consequent lowering of the signal-to-noise ratio. This noise arises primarily from random digitization noise, and is independent of the acceleration amplitudes. With this in mind, the displacement plots indicate that a cut-off period lower than 14 seconds, or 8 seconds as the case may be, should be used to remove these components from

the acceleration data. It is clear, of course, that in routine processing of accelerograms, such as those mentioned above, it is not practical to examine each earthquake accelerogram in sufficient detail to permit selection of the cut-off period optimal for that particular record.

Availability of Reports and Data. All of the reports constituting the Volume II series mention specific references that discuss particular aspects of the various earthquake records. A list of these reports and other publications of the Earthquake Engineering Research Laboratory appears at the back of this issue, including the EERL Report Number and the Accession Number, with which they are obtainable from:

National Technical Information Service
U.S. Department of Commerce
Springfield, Virginia 22151 .

Information on the availability and costs of punched cards and magnetic tapes containing this data, and the data from other volumes in the series, may be obtained from the National Information Service for Earthquake Engineering, the Earthquake Engineering Research Laboratory, California Institute of Technology.

Numbering of EERL Reports. The system for the EERL-numbering of the reports is based on two numbers, one indicating the year of preparation, and the second indicating the volume to which the report belongs. A detailed description follows.

For the Volume I reports, the first number indicates the year in which the particular data was first prepared for either a report

or for loading onto magnetic tape. This number ranges from 70 to 73. The first printing of Volume I, Part A, appeared before the numbering system was chosen. Although it was dated July, 1969, it actually did not appear until 1970, and was consequently numbered EERL 70-20 in subsequent printings. For the reports of Volumes II, III, and IV, the first number indicates the year in which the report was prepared, and ranges from 70 to 75.

The second number increases consecutively with each report, restarting at 20 each year in the case of Volume I reports, at 50 for Volume II, at 80 for Volume III, and at 100 for Volume IV. For example, Volume II, Part G, Report No. EERL 73-52, was prepared in 1973 and was the third report of the Volume II series to be published that year. The numbers from 01 to 19 each year are reserved for other publications of the Earthquake Engineering Research Laboratory, such as thesis reports and special reports.

Acknowledgments. We are grateful to the staff members of the Earthquake Engineering Research Laboratory who at all stages of the project continue to devote their time and attention to producing these reports and the corresponding cards and tapes. In particular we are indebted to Mr. Vincent Lee for carrying out the computing side of the project with such enthusiasm, to Miss Barbara Turner and Miss Sharon Vedrode for typing and editing, and to the staff of the Willis H. Booth Computing Center and the Graphic Arts Facilities. We appreciate the major support from the National Science Foundation that has made the entire project possible, and the continued

contributions from the Earthquake Research Affiliates Program of the California Institute of Technology.

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California Institute of Technology

INSTRUMENT CHARACTERISTICS

| Series Ref. No. | Caltech Log No. | Instr. Serial No. | Date & Time | Station No.; Location | Component* Direction | Period* T ₀ (sec) | Sens.* (cm/g) | Damp* Ratio, ϵ | Damp* % crit. |
|--------------------|--------------------|-------------------------|----------------------|--|-------------------------|---------------------------------|----------------------|----------------------------|-----------------------|
| IIV314 | 33.002.0 | S-M 3D | 3-10-33 1754 PST | 136 L.A. Subway Terminal sub-bsmt., L.A., Calif. | N39E N51W Up | .098 .096 .102 | 26.6 31.8 26.3 | 10.0 20.0 ∞ | 59.2 69.0 100.0 |
| IIV315 | 33.003.0 | S-M 4M | 3-10-33 1754 PST | 131 Utilities Bldg. Long Beach, Calif. | South West Up | .105 .105 .105 | 30.8 31.7 27.0 | 6.0 6.0 ∞ | 49.4 49.4 100.0 |
| IIV316 | 41.004.0 | S-M 4M | 11-14-41 0042 PST | 131 Utilities Bldg. Long Beach, Calif. | North East Up | .102 .098 .099 | 27.1 25.0 27.0 | 9.0 8.0 9.0 | 57.4 55.2 57.4 |
| IIV317 | 41.005.0 | | 11-14-41 0042 PST | Chamber of Commerce Bsmt., L.A., Calif. | S50E S40W Up | .103 .100 .101 | 28.5 26.6 27.4 | 9.0 10.0 10.0 | 57.4 59.2 59.2 |
| IIV318 | 52.004.0 | S-M 40A | 7-21-52 0453 PDT | 134 Hollywood Storage, Penthouse, Hollywood, Calif. | South West Up | .046 .044 .045 | 6.2 6.0 6.1 | 9.0 28.0 7.0 | 57.4 72.8 52.8 |
| IIV319 | 52.012.0 | S-M 2 | 11-21-52 2346 PST | 83 City Recreation Bldg., San Luis Obispo, Calif. | N36W S54W Up | .080 .079 .081 | 18.8 19.1 19.0 | 11.0 10.0 10.0 | 60.7 59.2 59.2 |
| IIV320 | 57.001.0 | S-M 20 | 3-22-57 1048 PST | 78 Southern Pacific Bldg., Bsmt., San Francisco, Cal. | N45E N45W Up | .0668 .0665 .0669 | 13.0 13.1 13.1 | 10.0 10.0 10.0 | 59.2 59.2 59.2 |
| IIV321 | 57.011.0 | | 3-22-57 1144 PST | Oakland City Hall, 16th Fl., Oakland, Calif. | N26E N64W Up | .0455 .0458 .0450 | 5.1 5.9 5.8 | 10.0 15.0 8.0 | 59.2 65.3 55.2 |

* See footnotes at end of table.

INSTRUMENT CHARACTERISTICS (cont.)

| Series Ref. No. | Caltech Log No. | Instr. Serial No. | Date & Time | Station No.; Location | Component* Direction | Period* T ₀ , (sec) | Sens.* (cm/g) | Damp* Ratio, % | Damp* % crit. |
|--------------------|--------------------|-------------------------|---------------------|---|-------------------------|-----------------------------------|----------------------|----------------------|----------------------|
| IIV322 | 57.014.0 | S-M 20 | 3-22-57 1515 PST | 78 Southern Pacific Bldg., Bsm't., San Francisco, Calif. | N45E N45W Up | .0668 .0665 .0669 | 13.0 13.1 13.1 | 10.0 10.0 10.0 | 59.2 59.2 59.2 |
| IIV323 | 57.015.0 | S-M 27 | 3-22-57 1515 PST | 65 Alexander Bldg., Bsm't., San Francisco, Calif. | N81E N09W Up | .0639 .0650 .0635 | 12.6 12.7 12.0 | 8.0 10.0 7.0 | 55.2 59.2 52.8 |
| IIV324 | 57.016.0 | S-M 43 | 3-22-57 1515 PST | 66 Alexander Bldg., 11th Fl., San Francisco, Calif. | N81E S09E Up | .0456 .0462 .0455 | 6.3 6.3 6.2 | 8.0 12.0 15.0 | 55.2 62.0 65.3 |
| IIV325 | 57.017.0 | S-M 36 | 3-22-57 1515 PST | 67 Alexander Bldg., 16th Fl., San Francisco, Calif. | S09E S81W Up | .0460 .0457 .0466 | 6.4 6.2 6.5 | 14.0 8.0 12.0 | 64.3 55.2 62.0 |
| IIV326 | 57.020.0 | S-M 37M | 3-22-57 1515 PST | 49 Oakland City Hall, Bsm't., Oakland, Calif. | N26E S64E Up | .0662 .0673 .0668 | 12.5 13.2 13.0 | 9.0 10.0 11.0 | 57.4 59.2 60.7 |
| IIV327 | 57.021.0 | | 3-22-57 1515 PST | Oakland City Hall, 16th Fl., Oakland, Calif. | N26E N64W Up | .0455 .0458 .0450 | 5.1 5.9 5.8 | 10.0 15.0 8.0 | 59.2 65.3 55.2 |
| IIV328 | 57.022.0 | S-M 20 | 3-22-57 1627 PST | 78 Southern Pacific Bldg., Bsm't., San Francisco, Calif. | N45E N45W Up | .0668 .0665 .0669 | 13.0 13.1 13.1 | 10.0 10.0 10.0 | 59.2 59.2 59.2 |
| IIV329 | 57.023.0 | S-M NL- 1-A | 3-18-57 1056 PST | 272 Navy Res. & Eval. Lab., Port Hueneme, Calif. | South West Up | .0753 .0774 .0774 | 17.2 17.7 17.6 | 8.0 20.0 11.0 | 55.2 69.0 60.7 |

*See footnotes at end of table.

INSTRUMENT CHARACTERISTICS (cont.)

| Series Ref. No. | Caltech Log No. | Instr. Serial No. | Date & Time | Station No.; Location | Component* Direction | Period* T ₀ (sec) | Sens.* (cm/g) | Damp* Ratio, e | Damp* % crit. |
|--------------------|--------------------|-------------------------|----------------------|--|-------------------------|---------------------------------|----------------------|----------------------|----------------------|
| IIV330 | 62.001.0 | S-M 30 | 9-4-62 0917 PST | 22 Federal Building, Eureka, Calif. | N79E S11E Up | .0655 .0665 .0658 | 13.0 13.3 12.6 | 10.0 12.0 9.0 | 59.2 62.0 57.4 |
| IIV331 | 65.006.0 | AR- 240 | 7-15-65 2346 PST | 110 Old Ridge Route (CWR), Castaic, Calif. | South East Down | .050* .050* .050* | 7.6* 7.6* 7.6* | 10.0 10.0 10.0 | 59.2 59.2 59.2 |
| IIV332 | 66.010.0 | S-M 8 | 9-12-66 0841 PST | 62 Pacific Tel. & Tel. Bldg., Bsmt., Sacramento, Calif. | South East Up | .073 .072 .071 | 16.0 16.0 16.0 | 10.0 10.0 9.0 | 59.2 59.2 57.4 |
| IIV333 | 67.008.0 | S-M BP-2 | 12-18-67 0925 PST | 72 Bethlehem Bldg., 12th Fl., San Francisco, Calif. | North West Up | .047 .046 .045 | 6.5 6.2 5.7 | 7.5 8.0 7.5 | 54.0 55.2 54.0 |

*

* Static Magnification, $V_s = \omega_n^2 \cdot (\text{Sensitivity}) = \left[\frac{2\pi}{T_0(\text{sec})} \right]^2 \cdot \frac{\text{Sensitivity (cm/g)}}{980 \text{ (cm/sec}^2\text{/g)}}$

Periods, sensitivities, and damping ratios are obtained from the annual publication "U.S. Earthquakes" produced by the U.S. Department of Commerce. Asterisked values are nominal values, supplied by the manufacturer.

Damping ratio, $\epsilon = \exp[\pi n / \sqrt{(1 - n^2)}]$, where n is the fraction of critical damping.

The component direction is that of pendulum motion for the trace to be deflected "upwards" on the record, as described in the Notes.

EARTHQUAKE DATA, PART V

| <u>Location</u> | <u>Date</u> | <u>Time</u> | <u>Lat. (N)</u> | <u>Long. (E)</u> | <u>Depth* (km)</u> | <u>Mag.</u> | <u>Maximum Intensity</u> |
|------------------------------------|-------------|-------------|-----------------|------------------|------------------------|-------------|------------------------------|
| Long Beach, Calif. | 03/10/33 | 1754 PST | 33°37'00" | -117°58'00" | 16.0 | 6.3 | 9 |
| Torrance-Gardena, Calif. | 11/14/41 | 0042 PST | 33°47'00" | -118°15'00" | 16.0 | 5.4 | 8 |
| Kern County, Calif. | 07/21/52 | 0453 PDT | 35°00'00" | -119°01'00" | 16.0 | 7.7 | 11 |
| Southern Calif. | 11/21/52 | 2346 PST | 35°50'00" | -121°10'00" | - | 6.0 | 7 |
| San Francisco, Calif. Foreshock | 03/22/57 | 1048 PST | 37°40'00" | -122°28'00" | - | 3.8 | 5 |
| San Francisco, Calif. | 03/22/57 | 1144 PST | 37°40'00" | -122°29'00" | - | 5.3 | 7 |
| San Fran., Calif. Aftershock | 03/22/57 | 1515 PST | 37°39'00" | -122°27'00" | - | 4.4 | 5 |
| San Fran., Calif. Aftershock | 03/22/57 | 1627 PST | 37°39'00" | -122°29'00" | - | 4.0 | 5 |
| Southern Calif. | 03/18/57 | 1056 PST | 34°07'06" | -119°13'12" | 13.8 | 4.7 | 6 |
| Northern Calif. | 09/04/62 | 0917 PST | 40°58'00" | -124°12'00" | - | 5.0 | 6 |
| Southern Calif. | 07/15/65 | 2346 PST | 34°29'06" | -118°31'18" | 15.1 | 4.0 | 6 |
| Northern Calif. | 09/12/66 | 0841 PST | 39°24'00" | -120°06'00" | - | 6.3 | 7 |
| Northern Calif. | 12/18/67 | 0925 PST | 37°00'36" | -121°47'18" | - | 5.2 | 6 |

* Listed depth of 16.0 km is an estimate used for travel times in epicenter calculations (Gutenberg, 1951; Hileman et al., 1973).

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INDEX OF EARTHQUAKE RECORDS

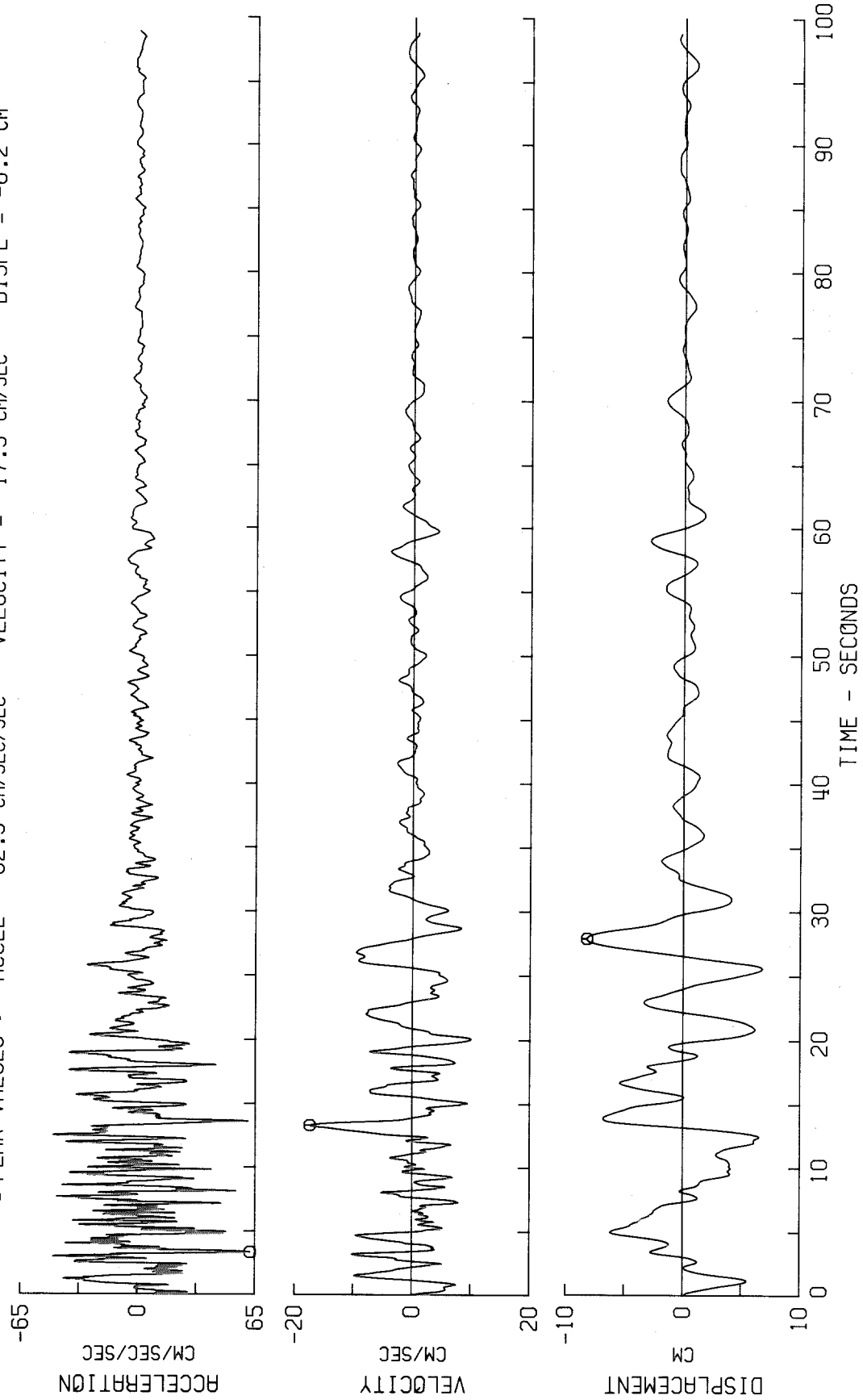
VOLUME II, PART V

| | <u>Records</u> | <u>Plot</u> | <u>Printout</u> |
|---------|--|-------------|-----------------|
| IIV314; | Subway Terminal, sub-bsmt., L.A., Calif.; N39E, N51W, Up; 3.10.33, 1754 PST | 19 | 79 |
| IIV315; | Public Utilities Bldg., Long Beach, Calif.; South, West, Up; 3.10.33, 1754 PST | 22 | 94 |
| IIV316; | Public Utilities Bldg., Long Beach, Calif.; North, East, Up; 11.14.41, 0042 PST | 25 | 109 |
| IIV317; | Chamber of Commerce Bldg., Bsmt., L.A., Calif.; S50E, S40W, Up; 11.14.41, 0042 PST | 28 | 121 |
| IIV318; | Hollywood Storage, Penthouse, Hollywood, Calif.; South, West, Up; 7.21.52, 0453 PDT | 31 | 133 |
| IIV319; | City Recreation Bldg., San Luis Obispo, Calif.; N36W, S54W, Up; 11.21.52, 2346 PST | 34 | 145 |
| IIV320; | Southern Pacific Bldg., Bsmt., San Francisco, Calif.; N45E, N45W, Up; 3.22.57, 1048 PST | 37 | 154 |
| IIV321; | Oakland City Hall, 16th Fl., Oakland, Calif.; N26E, N64W, Up; 3.22.57, 1144 PST | 40 | 160 |
| IIV322; | Southern Pacific Bldg., Bsmt., San Francisco, Calif.; N45E, N45W, Up; 3.22.57, 1515 PST | 43 | 174 |
| IIV323; | Alexander Bldg., Bsmt., San Francisco, Calif.; N81E, N09W, Up; 3.22.57, 1515 PST | 46 | 183 |
| IIV324; | Alexander Bldg., 11th Fl., San Francisco, Calif.; N81E, S09E, Up; 3.22.57, 1515 PST | 49 | 189 |
| IIV325; | Alexander Bldg., 16th Fl., San Francisco, Calif.; S09E, S81W, Up; 3.22.57, 1515 PST | 52 | 192 |
| IIV326; | Oakland City Hall, Bsmt., Oakland, Calif.; N26E, S64E, Up; 3.22.57, 1515 PST | 55 | 198 |
| IIV327; | Oakland City Hall, 16th Fl., Oakland, Calif.; N26E, N64W, Up; 3.22.57, 1515 PST | 58 | 204 |
| IIV328; | Southern Pacific Bldg., Bsmt., San Francisco, Calif.; N45E, N45W, Up; 3.22.57, 1627 PST | 61 | 207 |
| IIV329; | Navy Res. & Eval. Lab., Port Hueneme, Calif.; South, West, Up; 3.18.57, 1056 PST | 64 | 213 |
| IIV330; | Federal Building, Eureka, Calif.; N79E, S11E, Up; 9.4.62, 0917 PST | 67 | 225 |

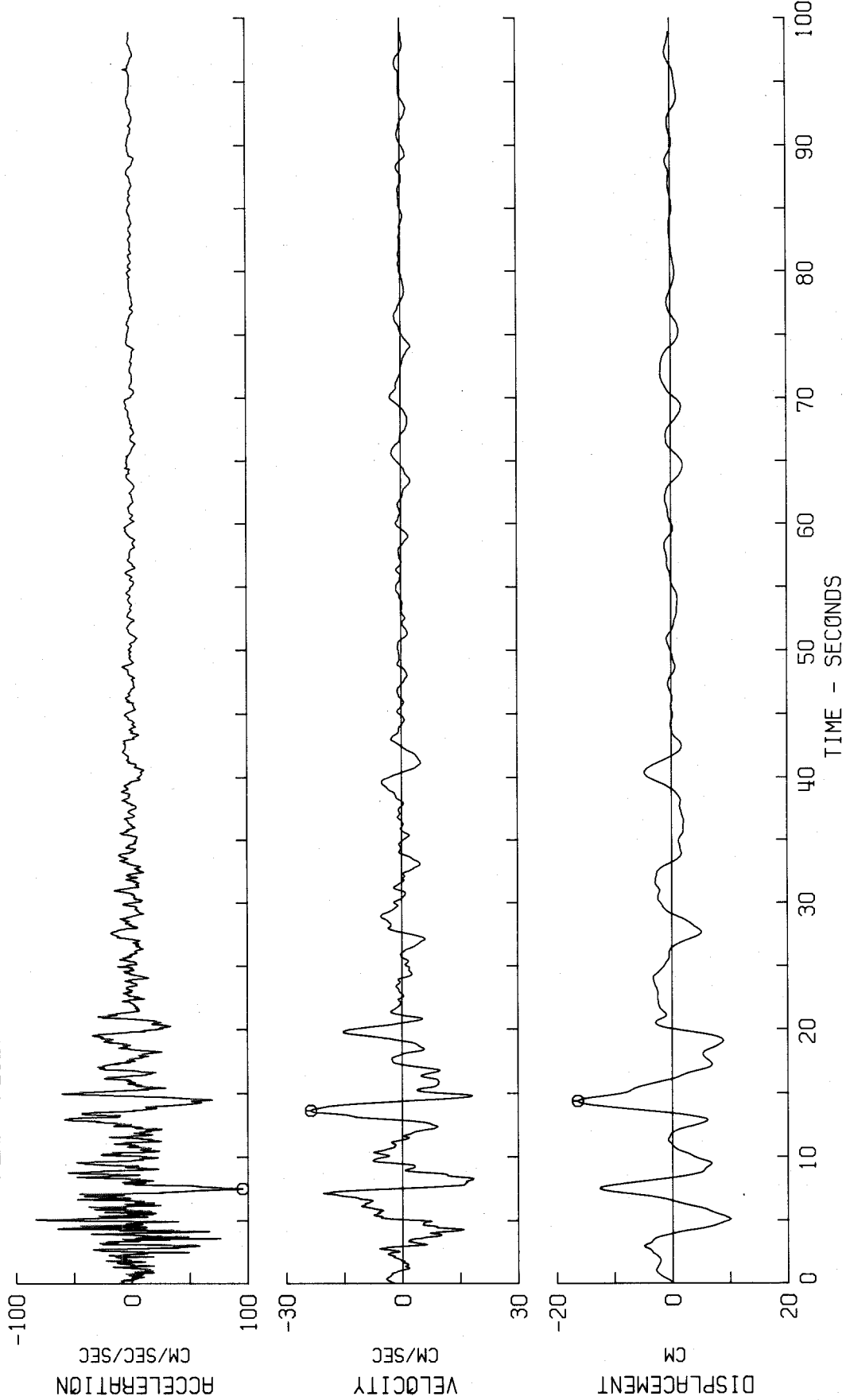
INDEX OF EARTHQUAKE RECORDS (CONT.)

| | <u>Records</u> | <u>Plot</u> | <u>Printout</u> |
|---------|---|-------------|-----------------|
| IIV331; | Old Ridge Route (CWR), Castaic, Calif.; South, East, Down; 7.15.65, 2346 PST | 70 | 240 |
| IIV332; | Pacific Tel. & Tel. Bldg., Bsmnt., Sacramento, Calif.; South, East, Up; 9.12.66, 0841 PST | 73 | 243 |
| IIV333; | Bethlehem Bldg., 12th Fl., San Francisco, Calif.; North, West, Up; 12.18.67, 0925 PST | 76 | 252 |

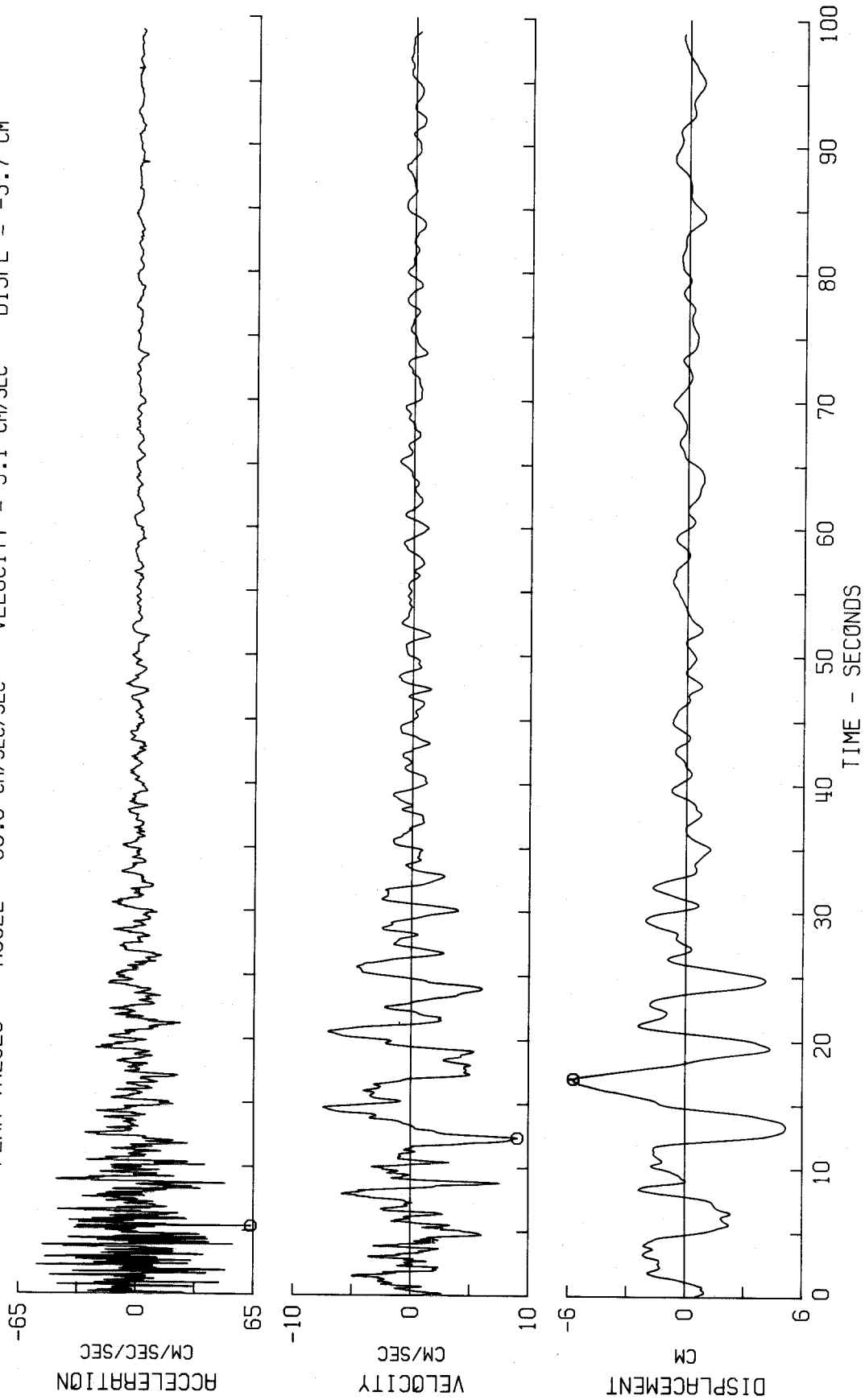
LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
IIV314 33.002.0 L.A. SUBWAY TERMINAL SUB-B5MT.. LOS ANGELES, CAL. COMP N39E
PEAK VALUES : ACCEL = 62.3 CM/SEC/SEC VELOCITY = -17.3 CM/SEC DISPL = -8.2 CM



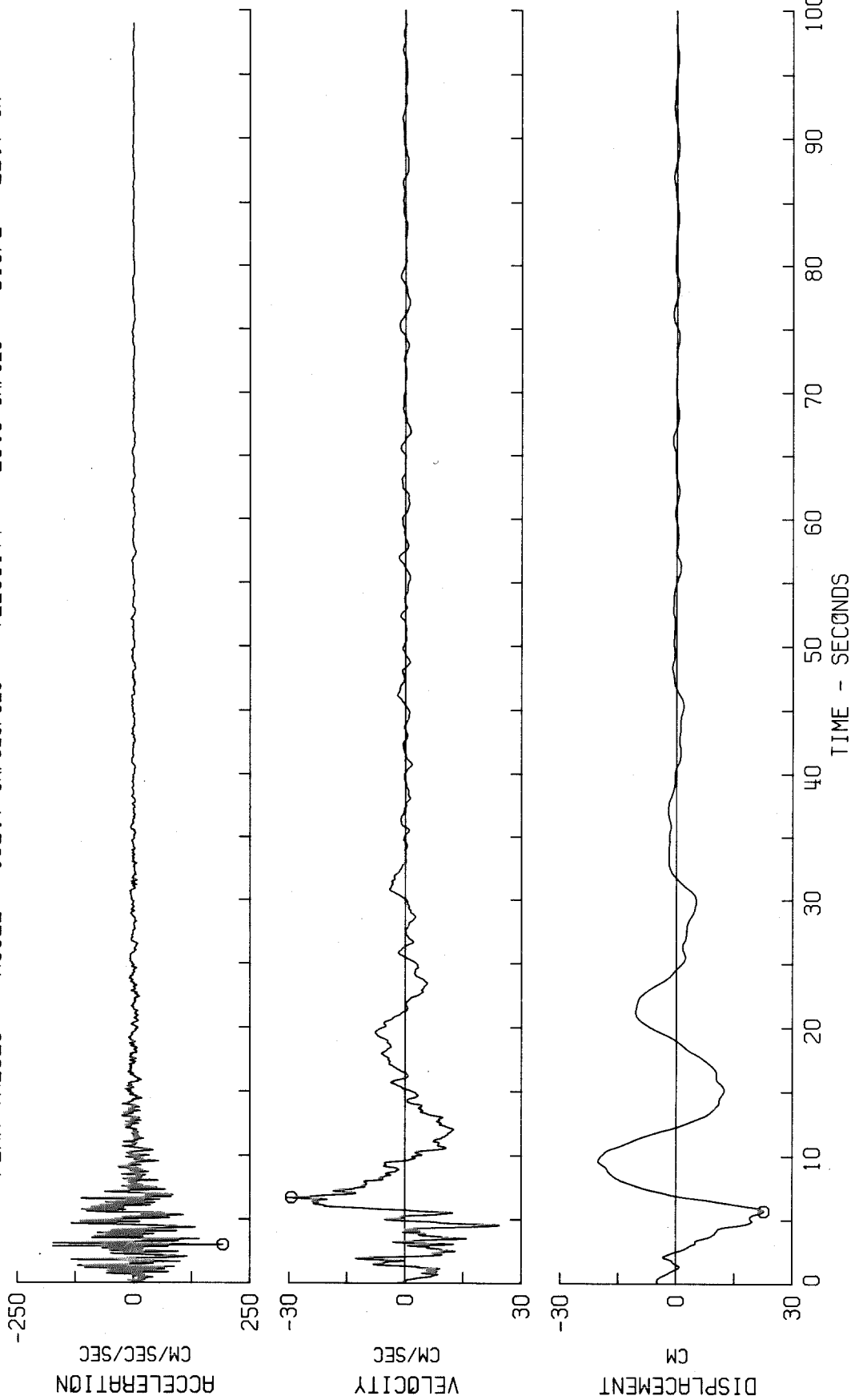
LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
IIV314 33.002.0 L.A. SUBWAY TERMINAL SUB-BMT., LOS ANGELES, CAL. COMP N51W
PEAK VALUES : ACCEL = 95.6 CM/SEC/SEC VELOCITY = -23.7 CM/SEC DISPL = -16.3 CM



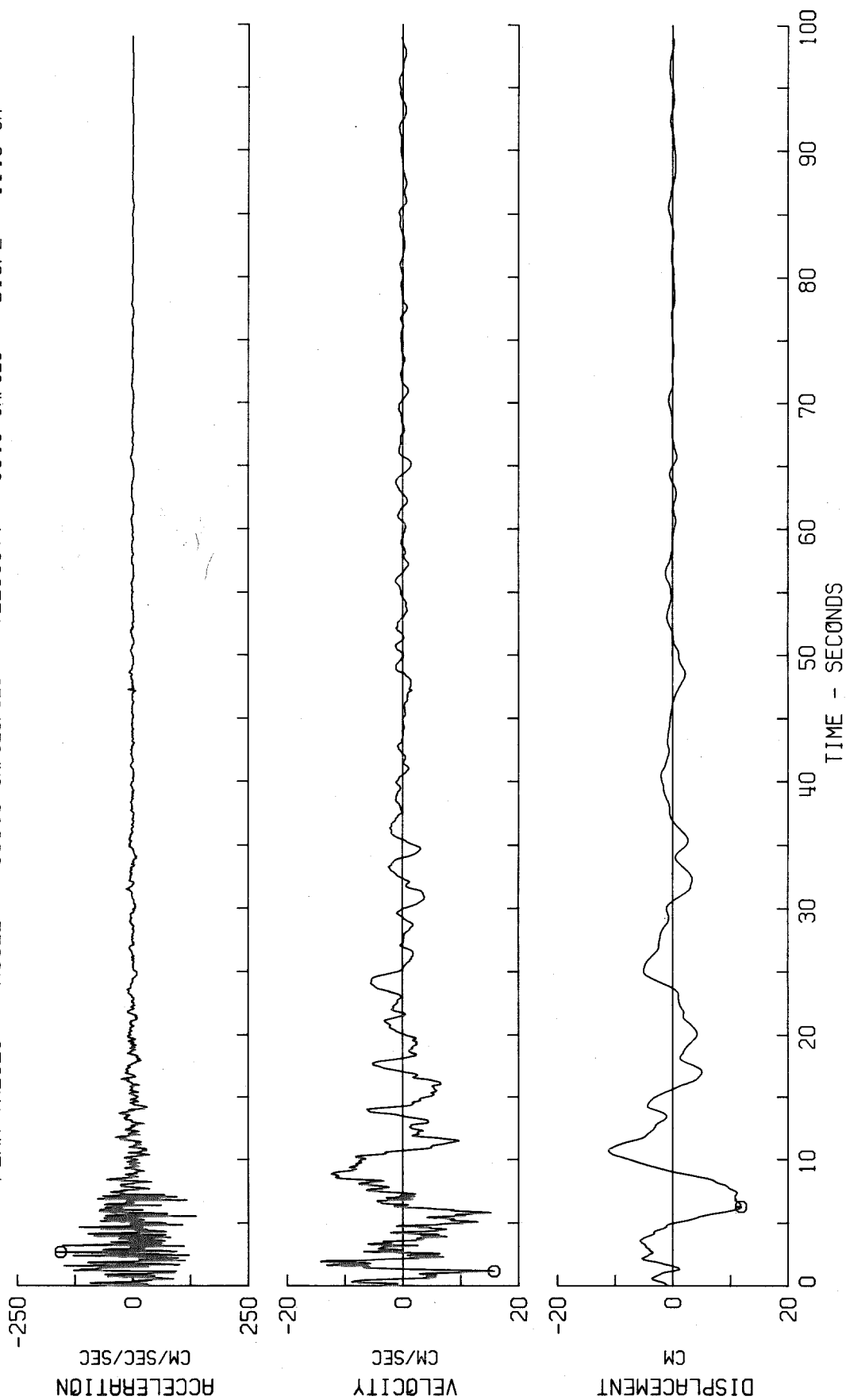
LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
IIV314 33.002.0 L.A. SUBWAY TERMINAL SUB-BMT., LOS ANGELES, CAL. COMP UP
PEAK VALUES: ACCEL = 63.6 CM/SEC/SEC VELOCITY = 9.1 CM/SEC DISPL = -5.7 CM



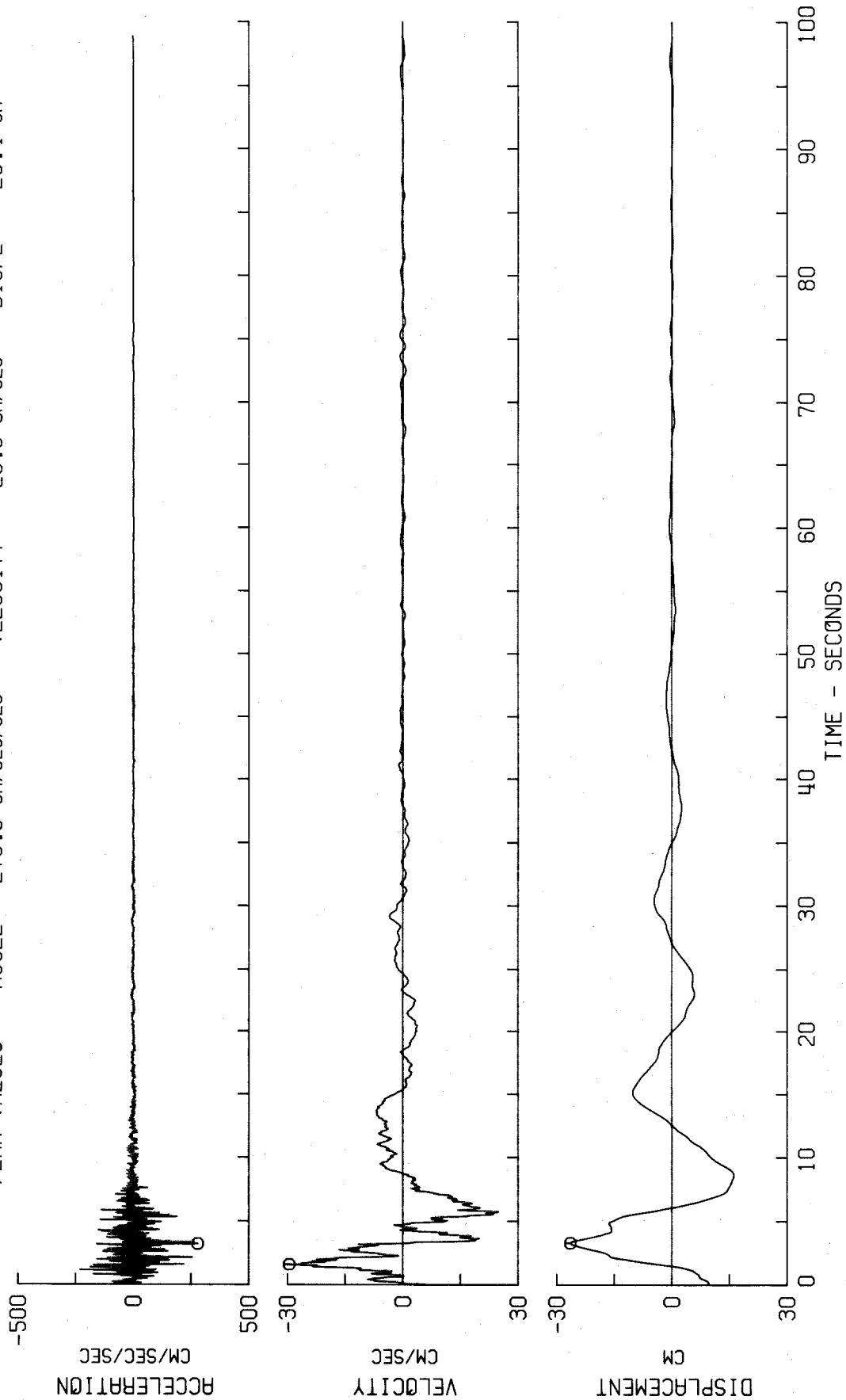
LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
IIV315 33.003.0 PUBLIC UTILITIES BLDG., LONG BEACH, CAL. COMP SOUTH
PEAK VALUES : ACCEL = 192.7 CM/SEC/SEC VELOCITY = -29.3 CM/SEC DISPL = 22.7 CM



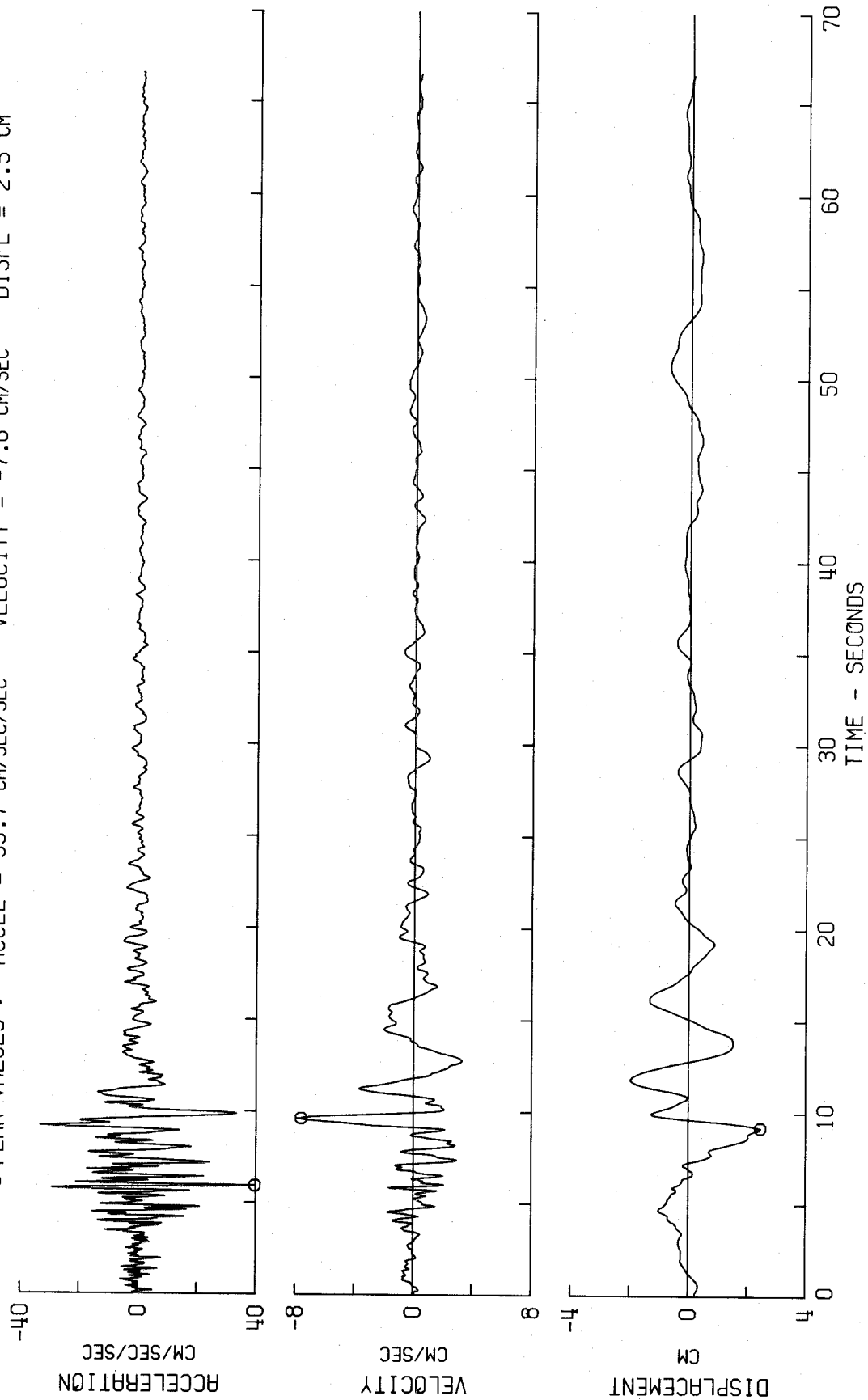
LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
IIV315 33.003.0 PUBLIC UTILITIES BLDG., LONG BEACH, CAL. COMP WEST
Ø PEAK VALUES : ACCEL = -156.0 CM/SEC/SEC VELOCITY = 15.8 CM/SEC DISPL = 11.9 CM



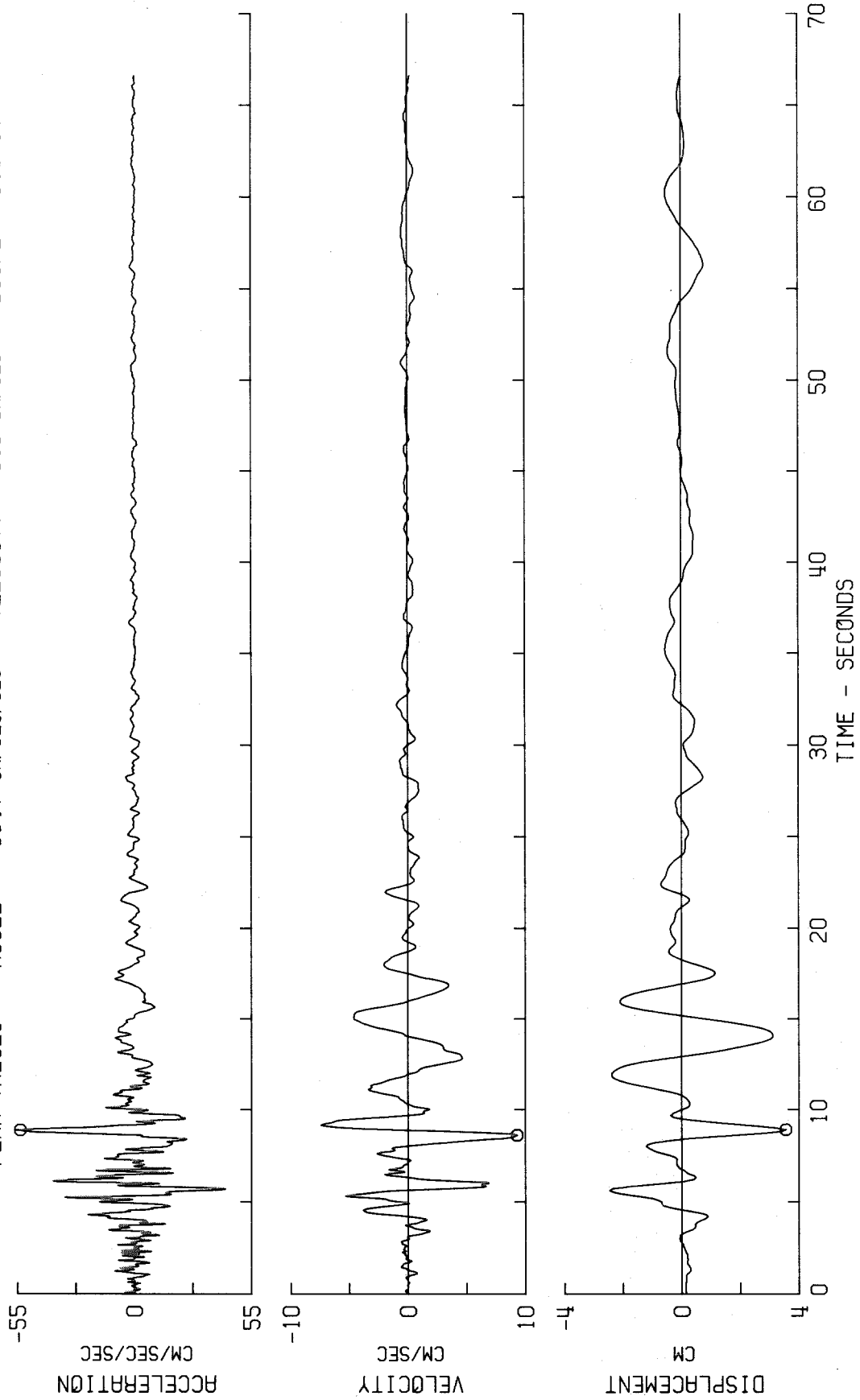
LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
IIV315 33.003.0 PUBLIC UTILITIES BLDG., LONG BEACH, CAL. COMP UP
o PEAK VALUES : ACCEL = 279.8 CM/SEC/SEC VELOCITY = -29.5 CM/SEC DISPL = -26.4 CM



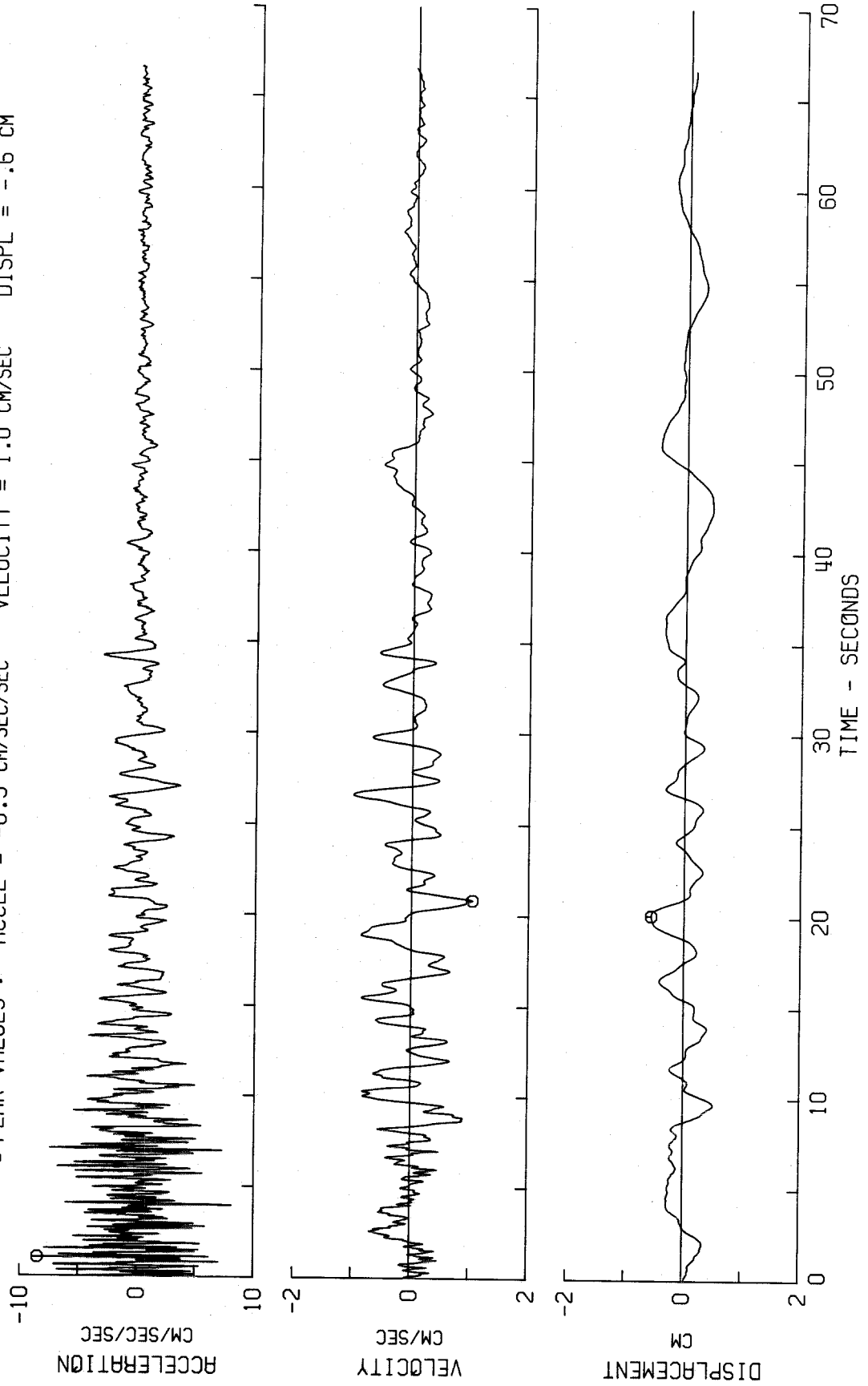
TORRANCE-GARDENA EARTHQUAKE NOV 14, 1941 - 0042 PST
IIIV316 41.004.0 PUBLIC UTILITIES BLDG., LONG BEACH, CAL. COMP NORTH
Ø PEAK VALUES : ACCEL = 39.7 CM/SEC/SEC VELOCITY = -7.6 CM/SEC DISPL = 2.5 CM



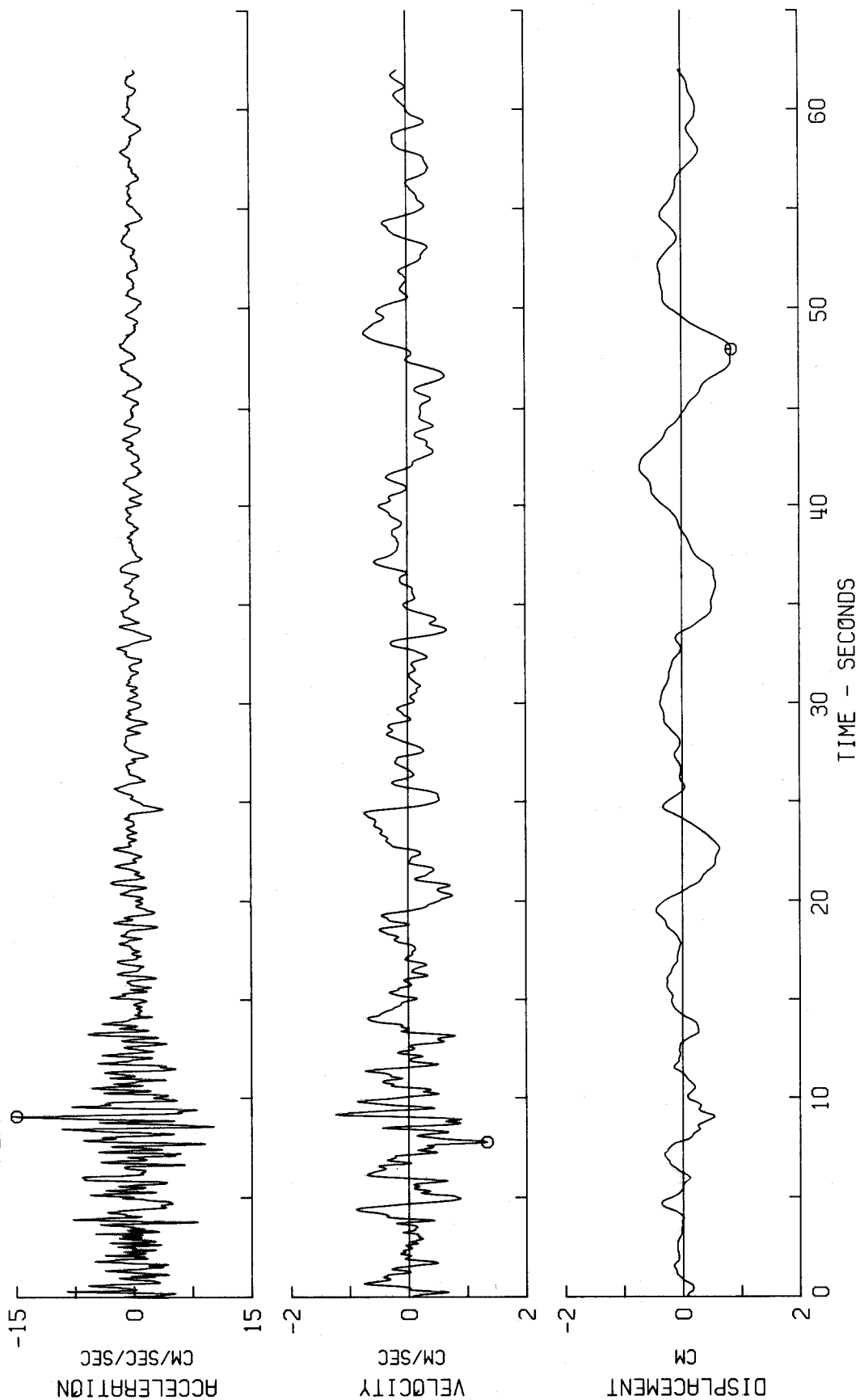
TORRANCE-GARDENA EARTHQUAKE NOV 14, 1941 - 0042 PST
IIV316 41.004.0 PUBLIC UTILITIES BLDG., LONG BEACH, CAL. COMP EAST
○ PEAK VALUES : ACCEL = -53.7 CM/SEC/SEC VELOCITY = 9.3 CM/SEC DISPL = 3.6 CM



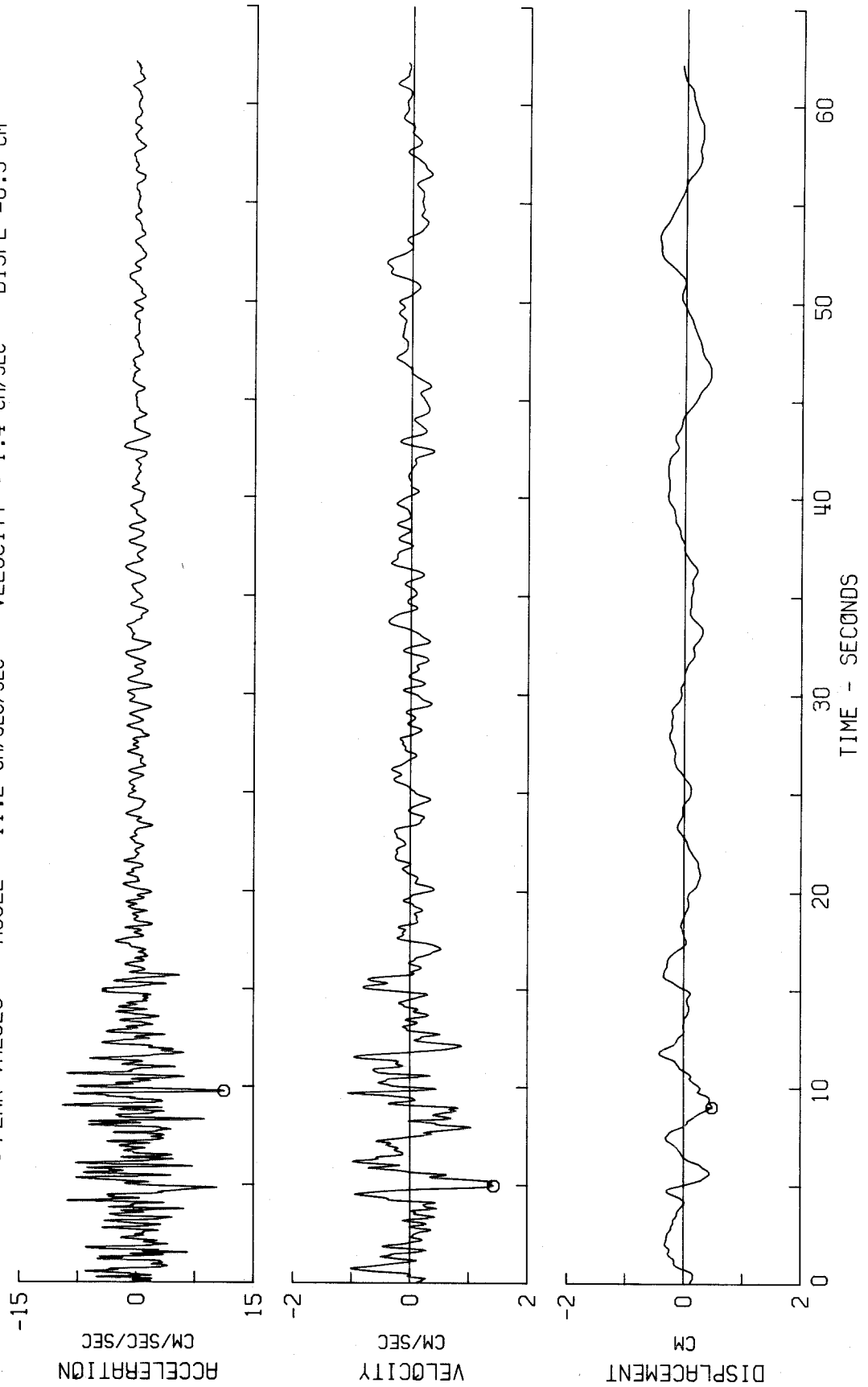
TORRANCE-GARDENA EARTHQUAKE NOV 14, 1941 - 0042 PST
IIV316 41.004.0 PUBLIC UTILITIES BLDG., LONG BEACH, CAL. COMP UP
⊙ PEAK VALUES : ACCEL = -8.5 CM/SEC/SEC VELOCITY = 1.0 CM/SEC DISPL = -.6 CM



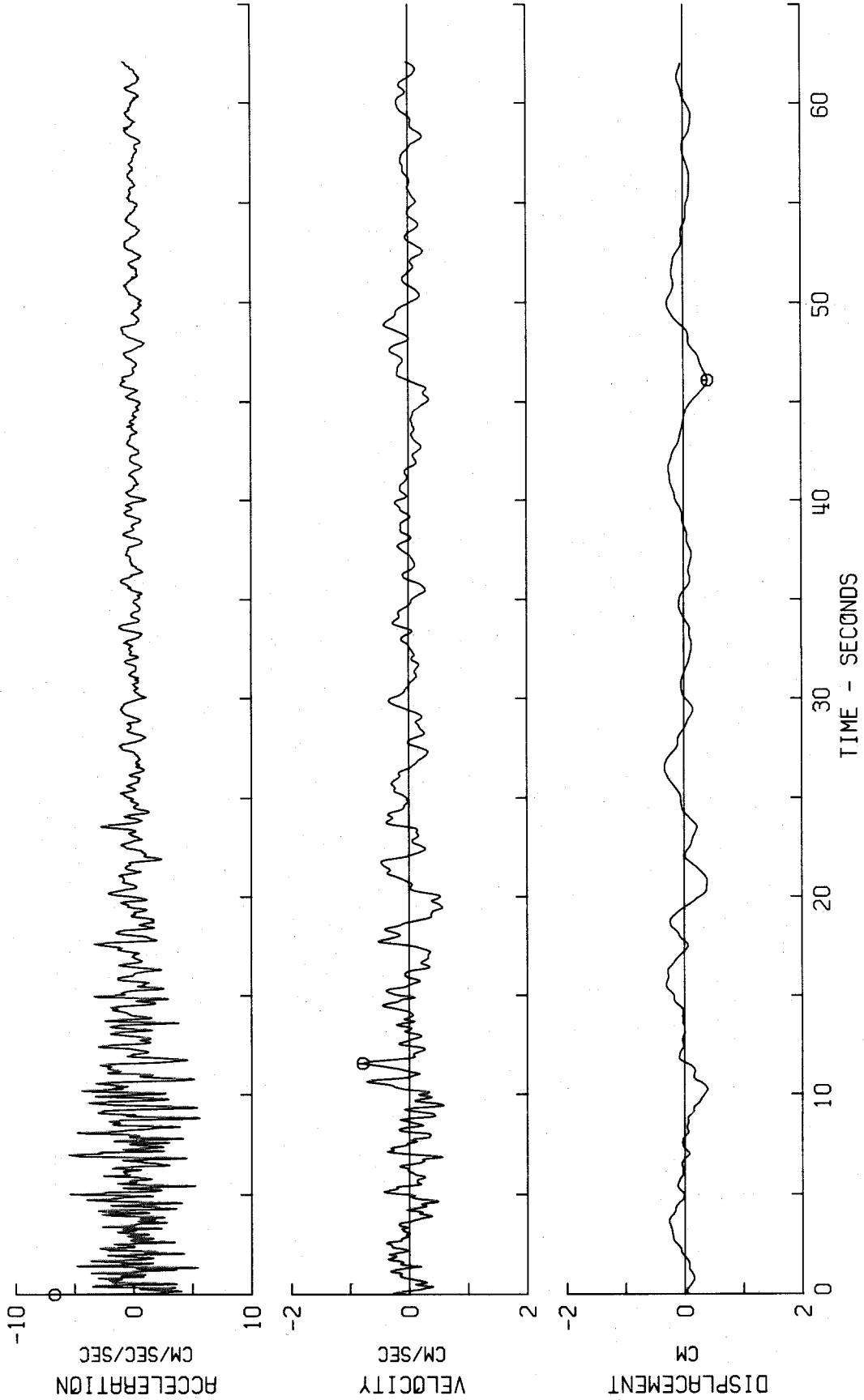
TORRANCE-GARDENA EARTHQUAKE NOV 14, 1941 - 0042 PST
IIV317 41.005.0 CHAMBER OF COMMERCE, BSMT., LOS ANGELES, CAL. COMP S50E
○ PEAK VALUES: ACCEL = -14.9 CM/SEC/SEC VELOCITY = 1.3 CM/SEC DISPL = 0.8 CM



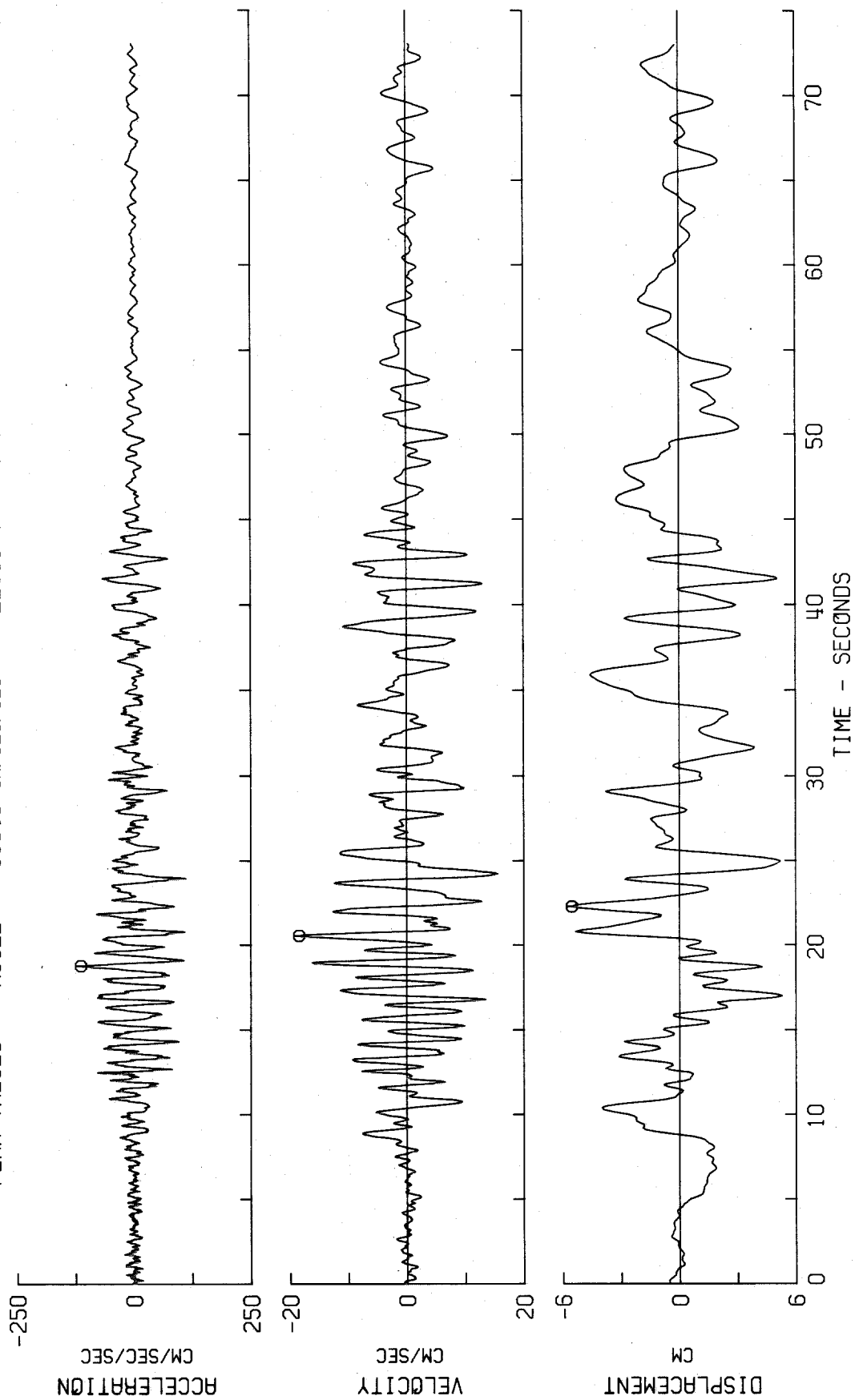
TORRANCE-GARDENA EARTHQUAKE NOV 14, 1941 - 0042 PST
IIV317 41.005.0 CHAMBER OF COMMERCE, BSMT., LOS ANGELES, CAL. COMP SHOW
⊙ PEAK VALUES : ACCEL = 11.2 CM/SEC/SEC VELOCITY = 1.4 CM/SEC DISPL = 0.5 CM



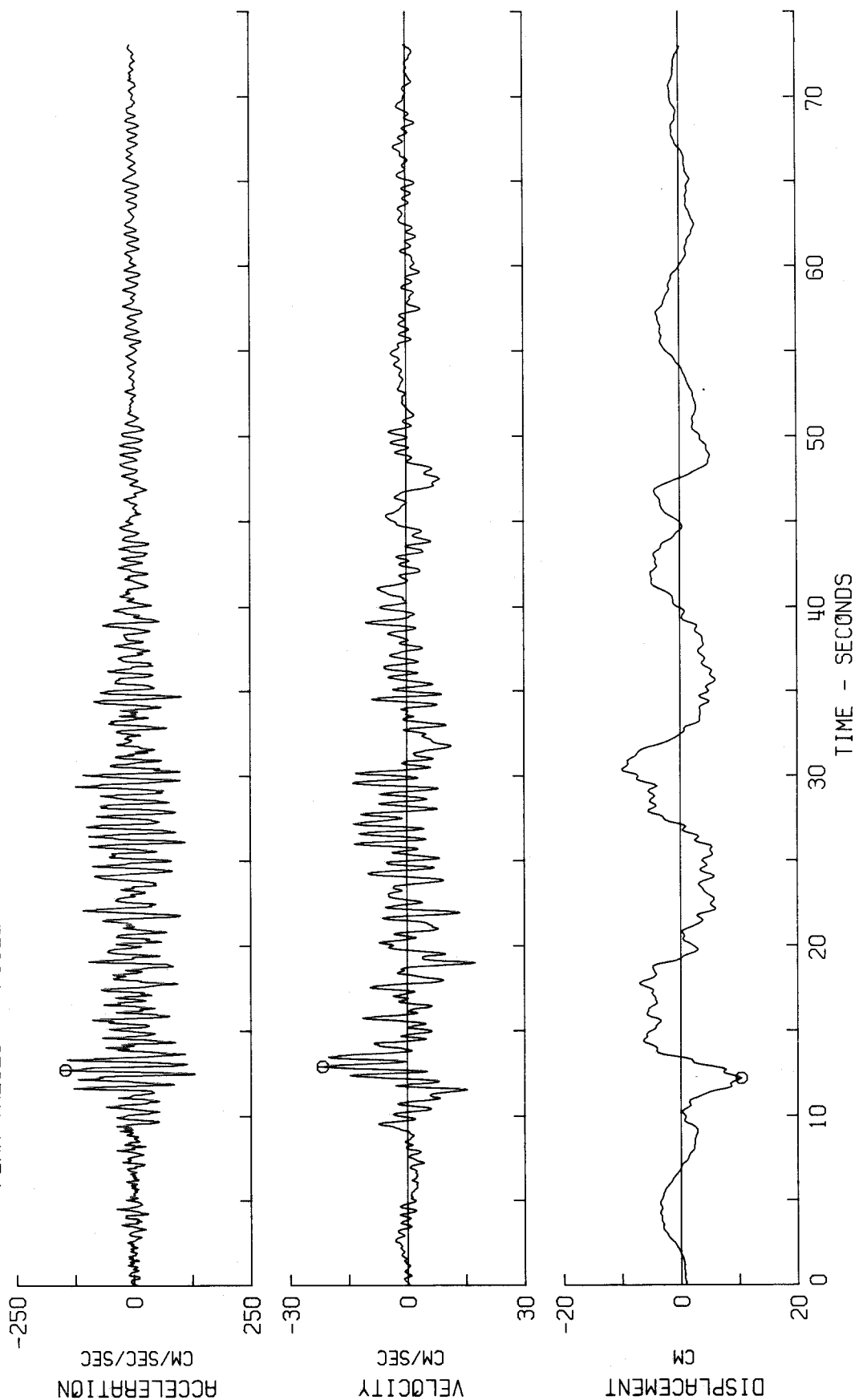
TORRANCE-GARDENA EARTHQUAKE NOV 14, 1941 - 0042 PST
IIV317 41.005.0 CHAMBER OF COMMERCE, BSMT., LOS ANGELES, CAL. COMP UP
o PEAK VALUES : ACCEL = -6.7 CM/SEC/SEC VELOCITY = -0.8 CM/SEC DISPL = 0.4 CM



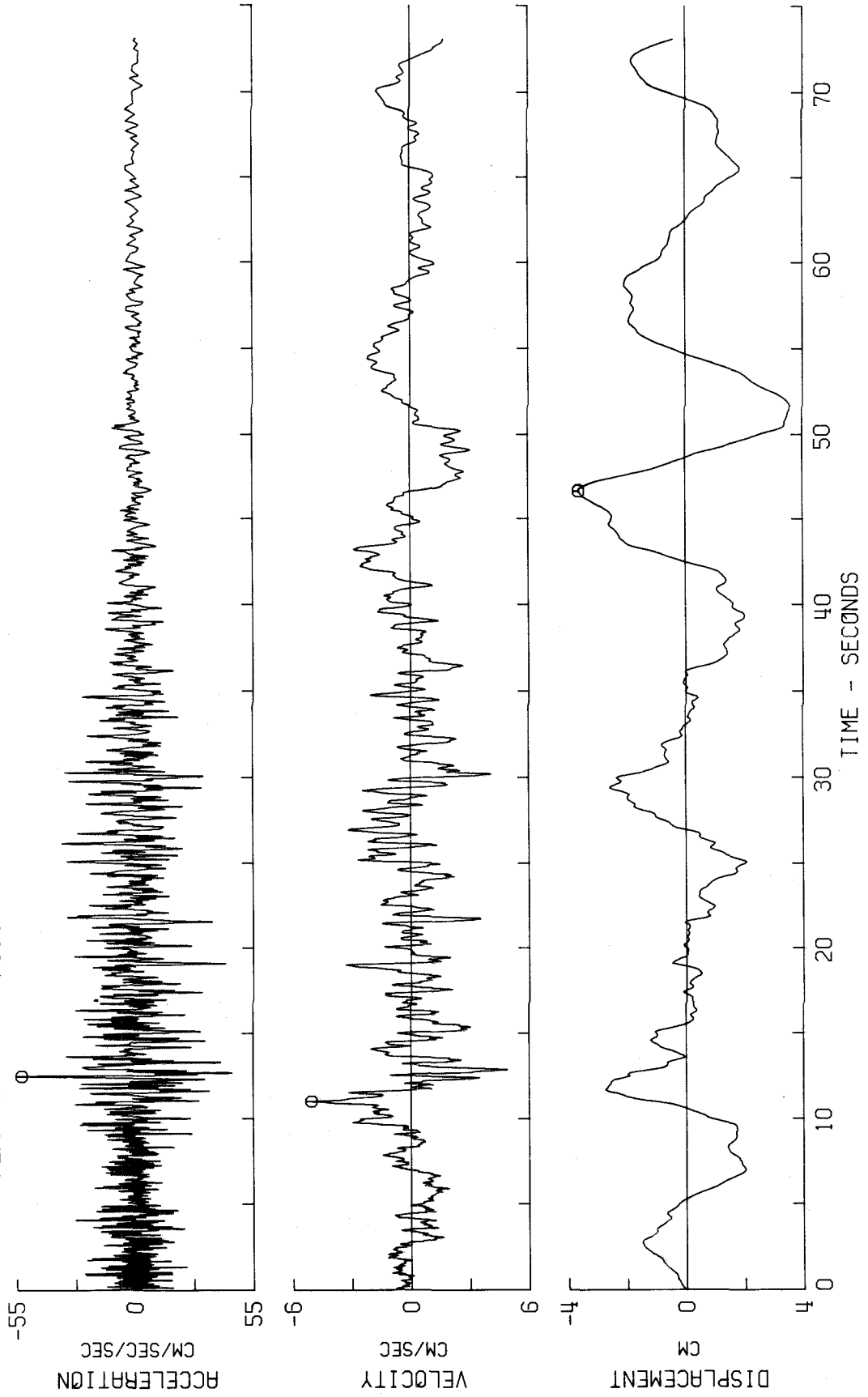
KERN COUNTY EARTHQUAKE JUL 21, 1952 - 0453 PDT
IIV318 52.004.0 HOLLYWOOD STORAGE CO.. PENTHOUSE, HOLLYWOOD, CAL. COMP SOUTH
PEAK VALUES : ACCEL = -113.3 CM/SEC/SEC VELOCITY = -18.4 CM/SEC DISPL = -5.5 CM



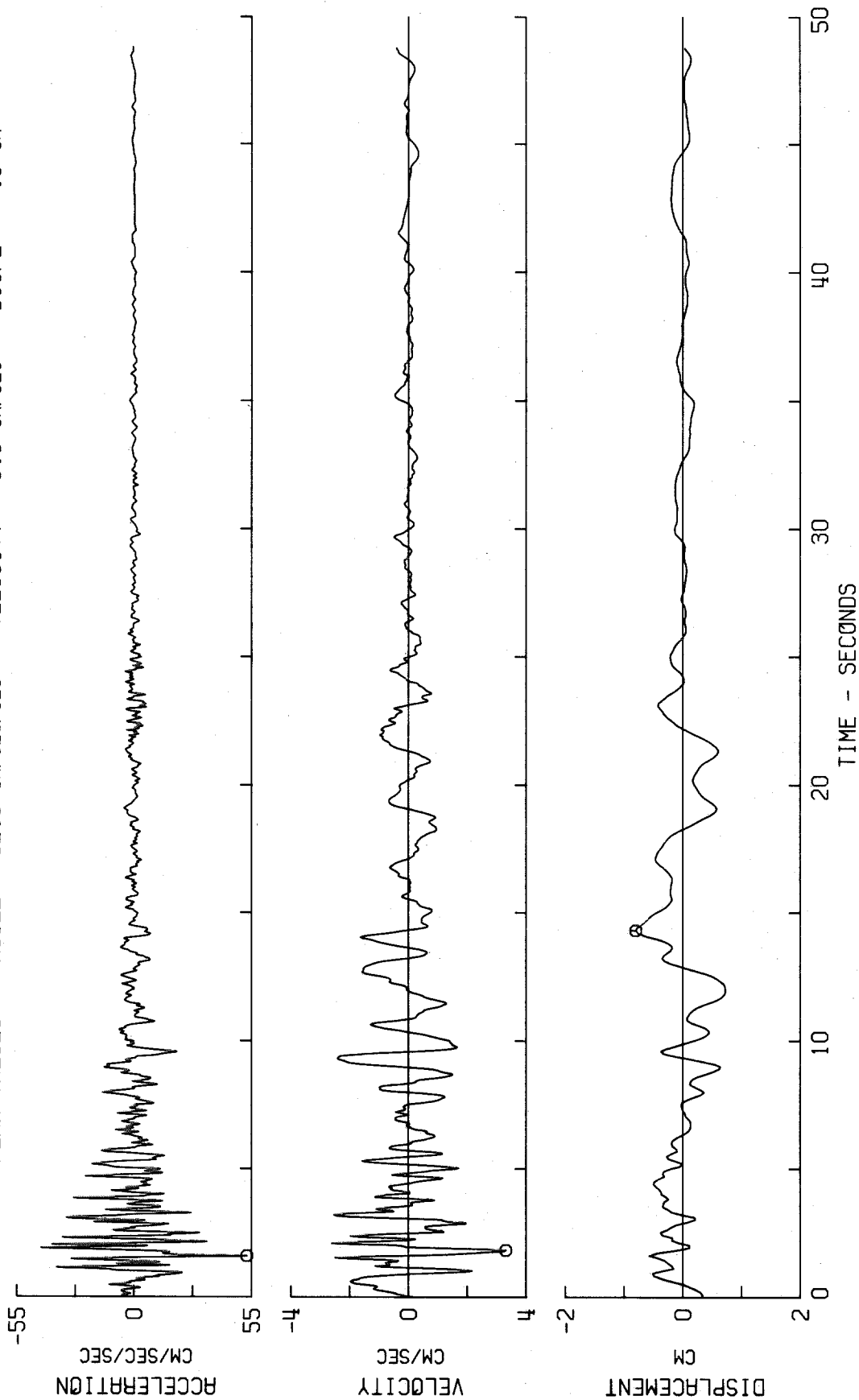
KERN COUNTY EARTHQUAKE JUL 21, 1952 - 0453 PDT
IIV318 52.004.0 HOLLYWOOD STORAGE CO., PENTHOUSE, HOLLYWOOD, CAL. COMP WEST
PEAK VALUES : ACCEL = -145.6 CM/SEC/SEC VELOCITY = -21.7 CM/SEC DISPL = 10.4 CM



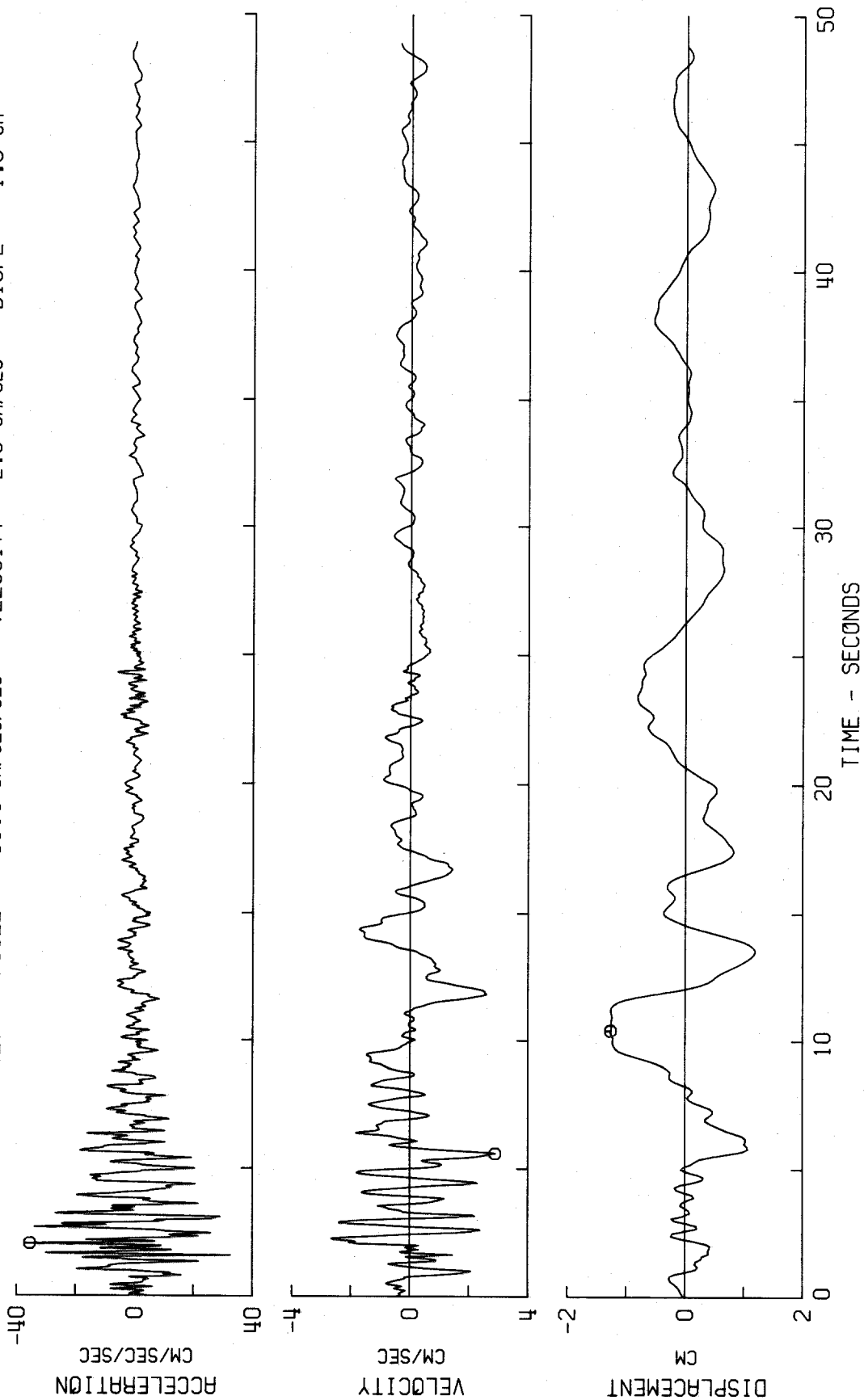
KERN COUNTY EARTHQUAKE JUL 21, 1952 - 0453 PDT
IIV318 52.004.0 HOLLYWOOD STORAGE CO., PENTHOUSE, HOLLYWOOD, CAL. COMP UP
PEAK VALUES: ACCEL = -52.4 CM/SEC/SEC VELOCITY = -5.0 CM/SEC DISPL = -3.6 CM



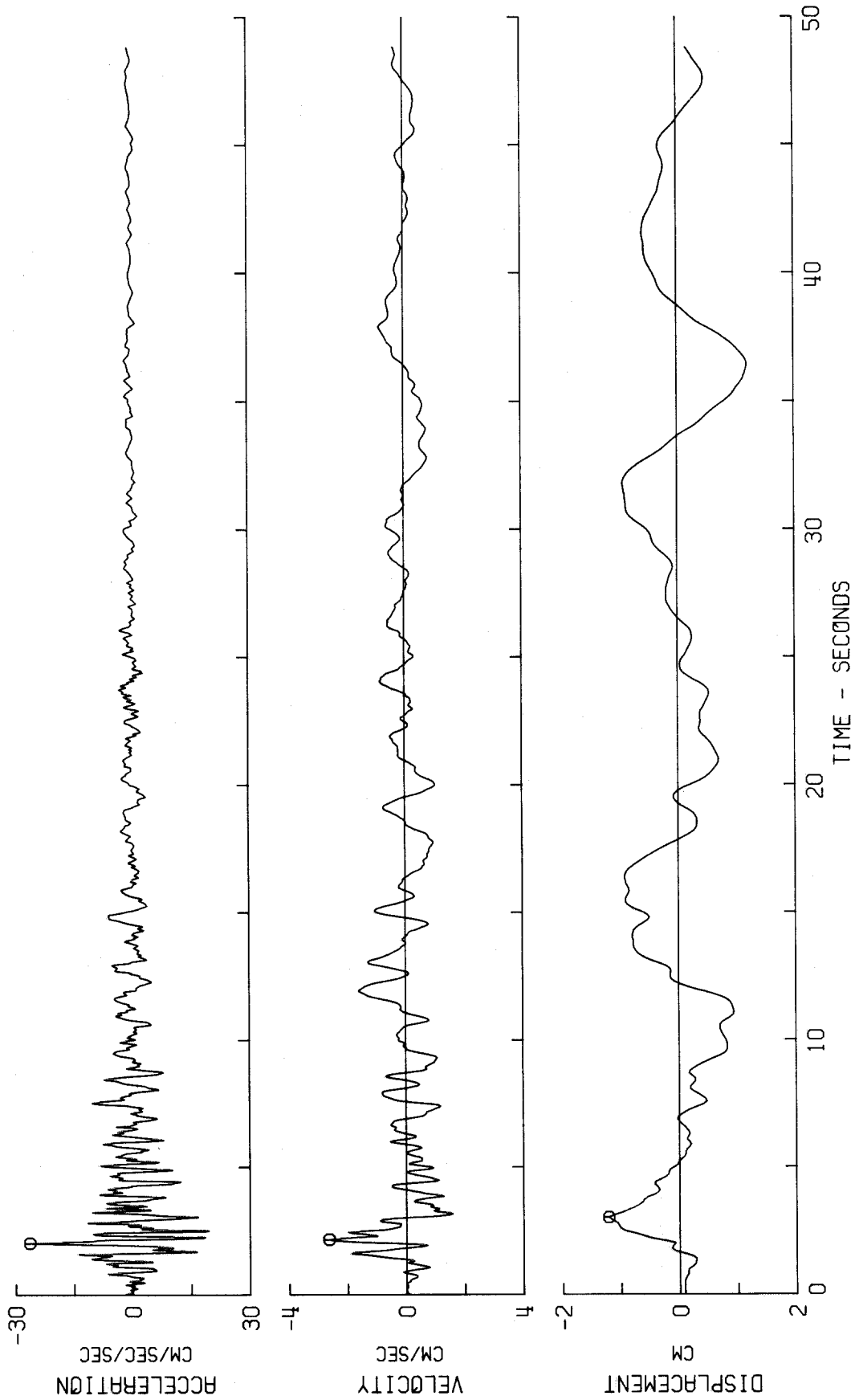
SOUTHERN CALIFORNIA EARTHQUAKE NOV 21, 1952 - 2346 PST
IIV319 52.012.0 CITY RECREATION BLDG., SAN LUIS OBISPO, CAL. COMP N36W
PEAK VALUES : ACCEL = 52.9 CM/SEC/SEC VELOCITY = 3.3 CM/SEC DISPL = -.8 CM



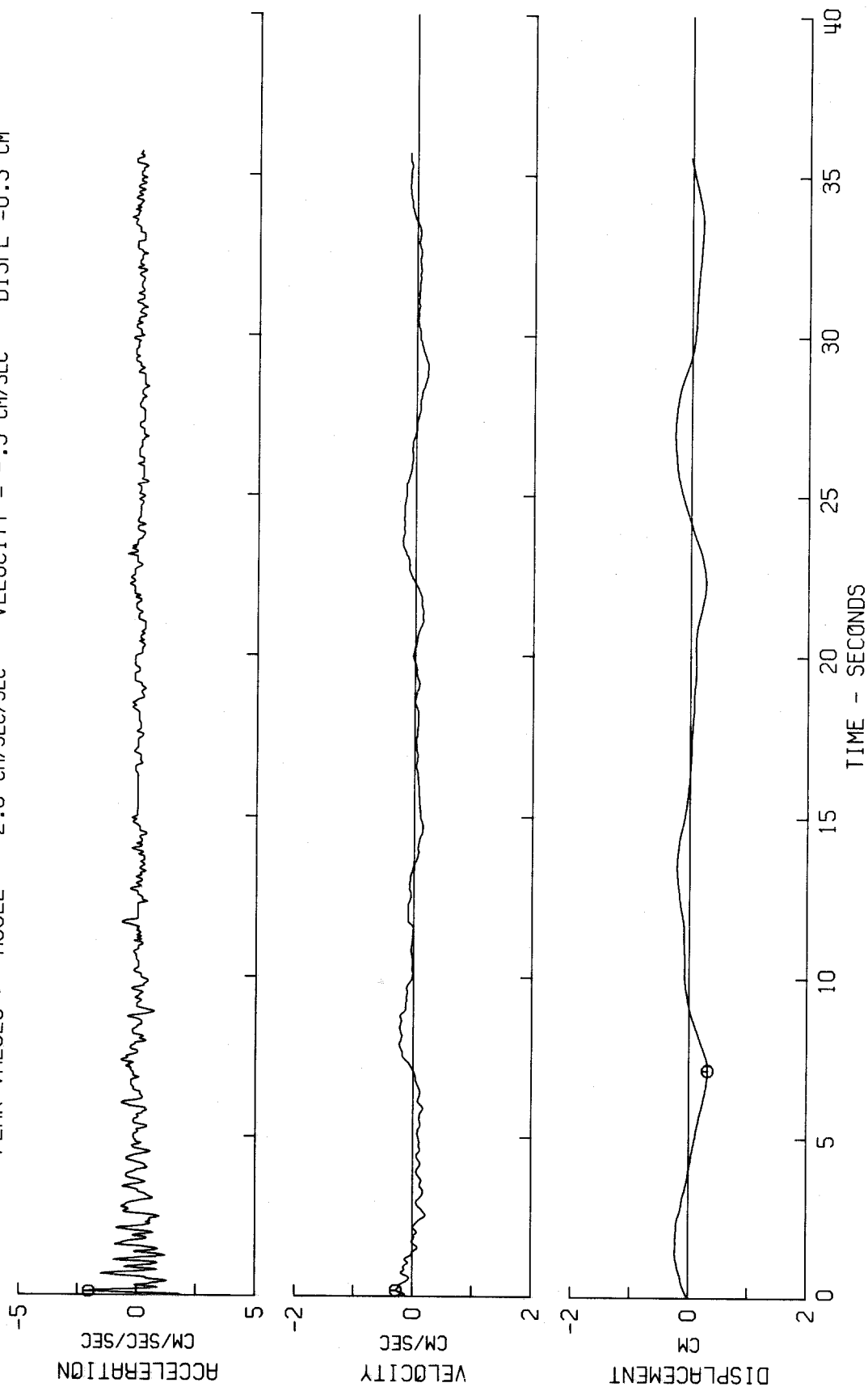
SOUTHERN CALIFORNIA EARTHQUAKE NOV 21, 1952 - 2346 PST
 IIV319 52.012.0 CITY RECREATION BLDG., SAN LUIS OBISPO, CAL. COMP S54W
 ○ PEAK VALUES : ACCEL = -35.4 CM/SEC/SEC VELOCITY = 2.9 CM/SEC DISPL = -1.3 CM



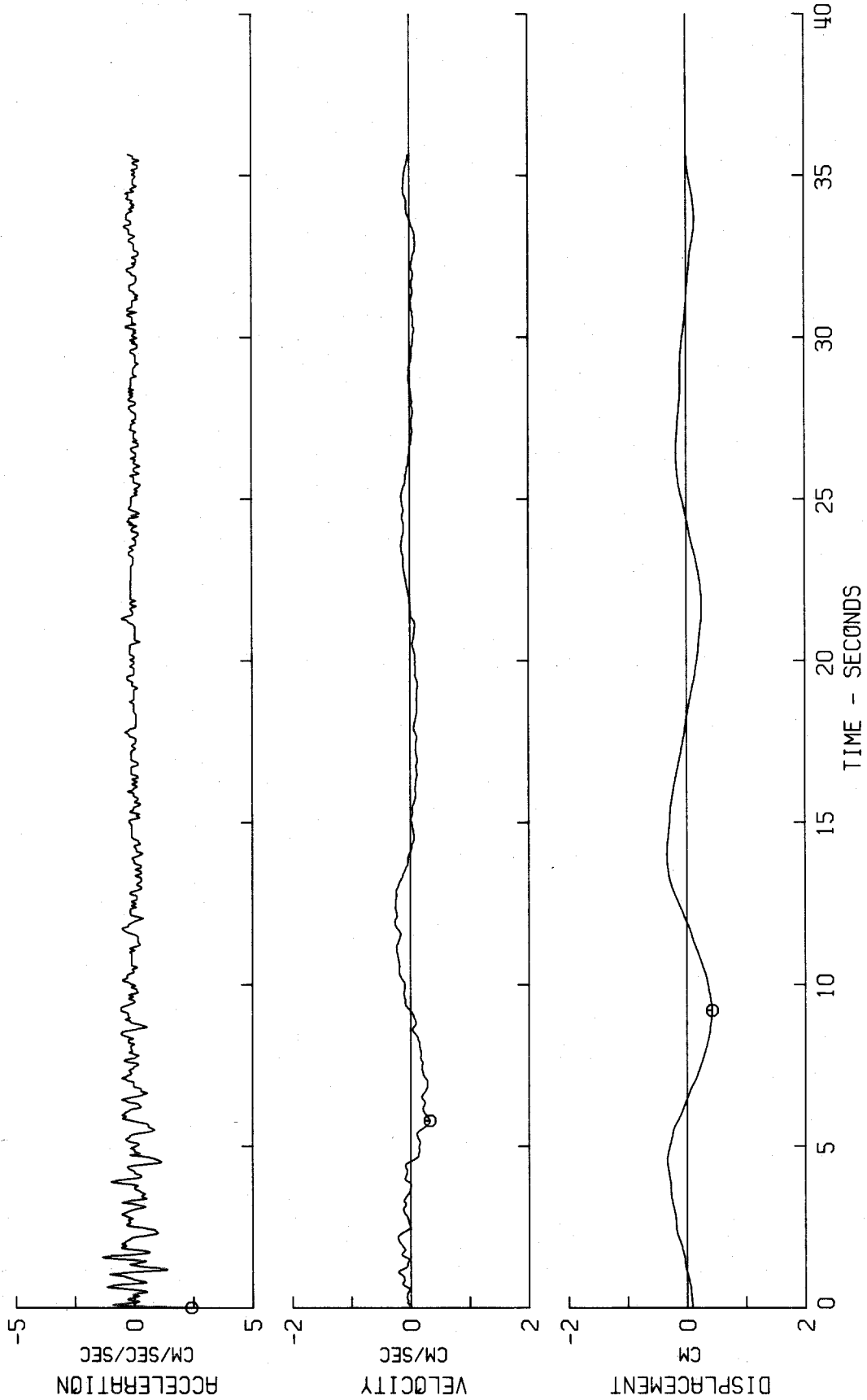
SOUTHERN CALIFORNIA EARTHQUAKE NOV 21, 1952 - 2346 PST
11V319 52.012.0 CITY RECREATION BLDG., SAN LUIS OBISPO, CAL. COMP UP
PEAK VALUES : ACCEL = -26.4 CM/SEC/SEC VELOCITY = -2.6 CM/SEC DISPL = -1.2 CM



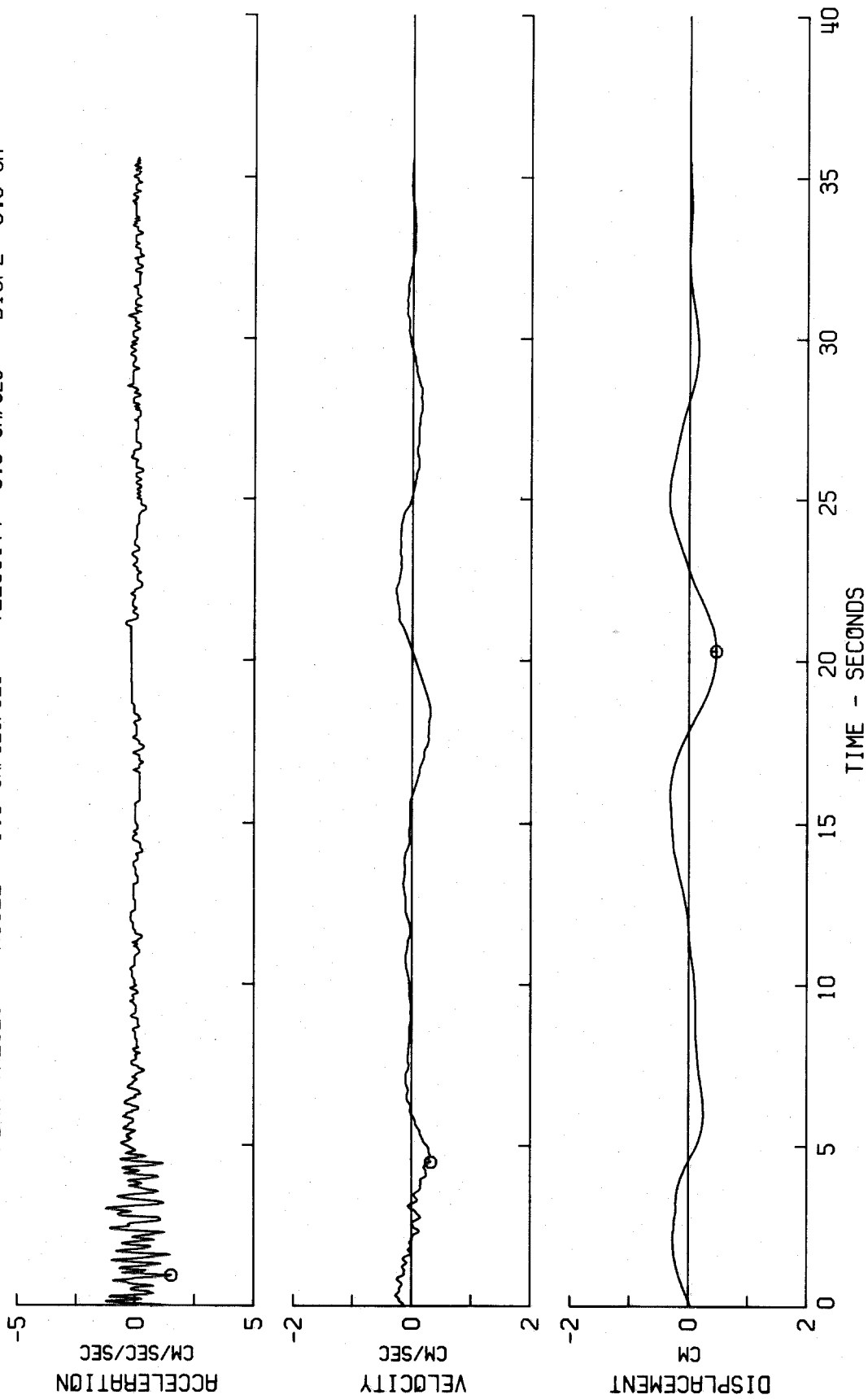
SAN FRANCISCO EARTHQUAKE FØRESHØCK MAR 22, 1957 - 1048 PST
 IIV320 57.001.0 SØUTHERN PACIFIC BLDG., BSMT, SAN FRANCISCO, CAL COMP N45E
 Ø PEAK VALUES : ACCEL = -2.0 CM/SEC/SEC VELOCITY = -.3 CM/SEC DISPL = 0.3 CM



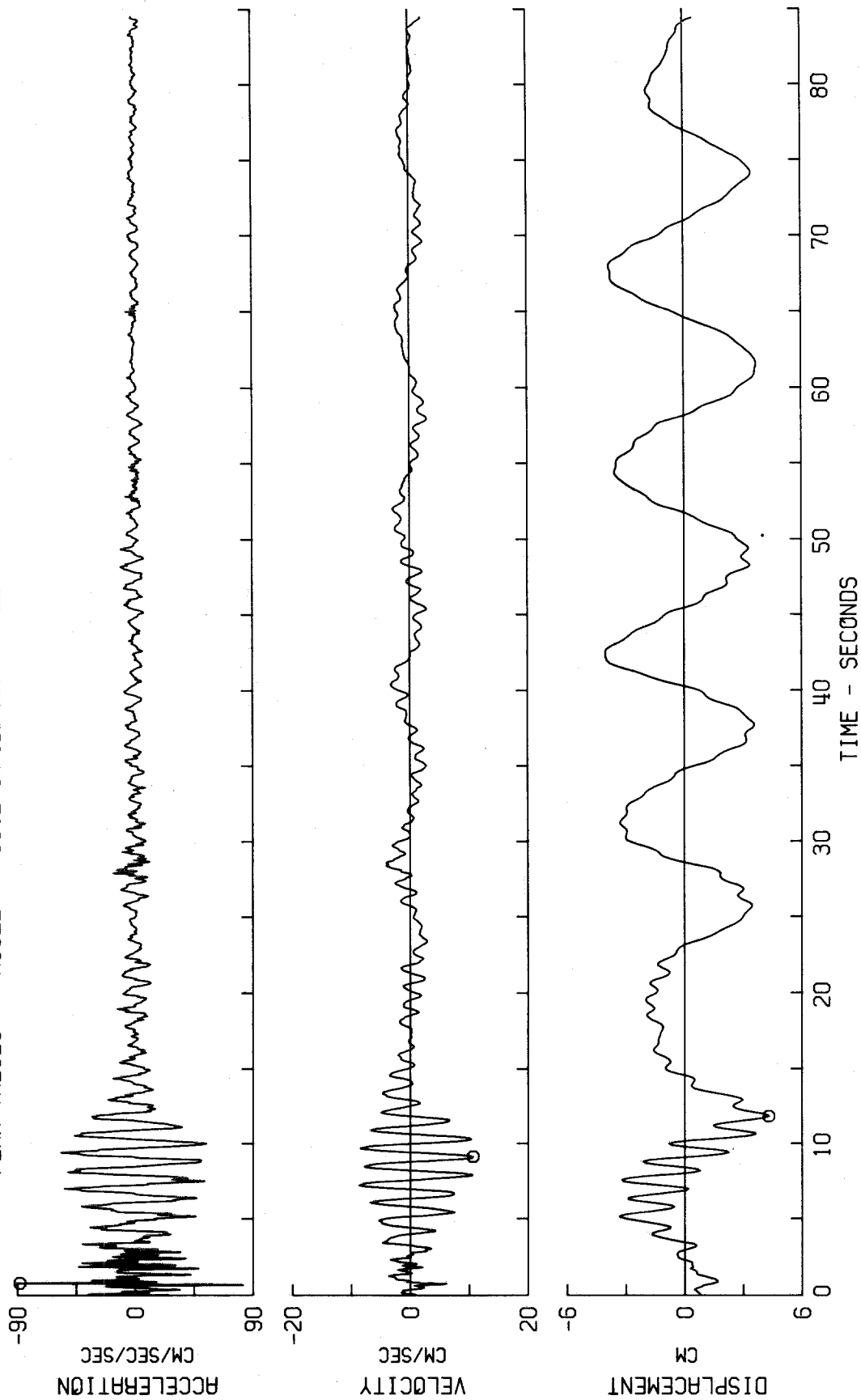
SAN FRANCISCO EARTHQUAKE FORESHOCK MAR 22, 1957 - 1048 PST
IIV320 57.001.0 SOUTHERN PACIFIC BLDG., BSMT., SAN FRANCISCO, CAL COMP N45W
O PEAK VALUES : ACCEL = 2.4 CM/SEC/SEC VELOCITY = 0.3 CM/SEC DISPL = 0.4 CM



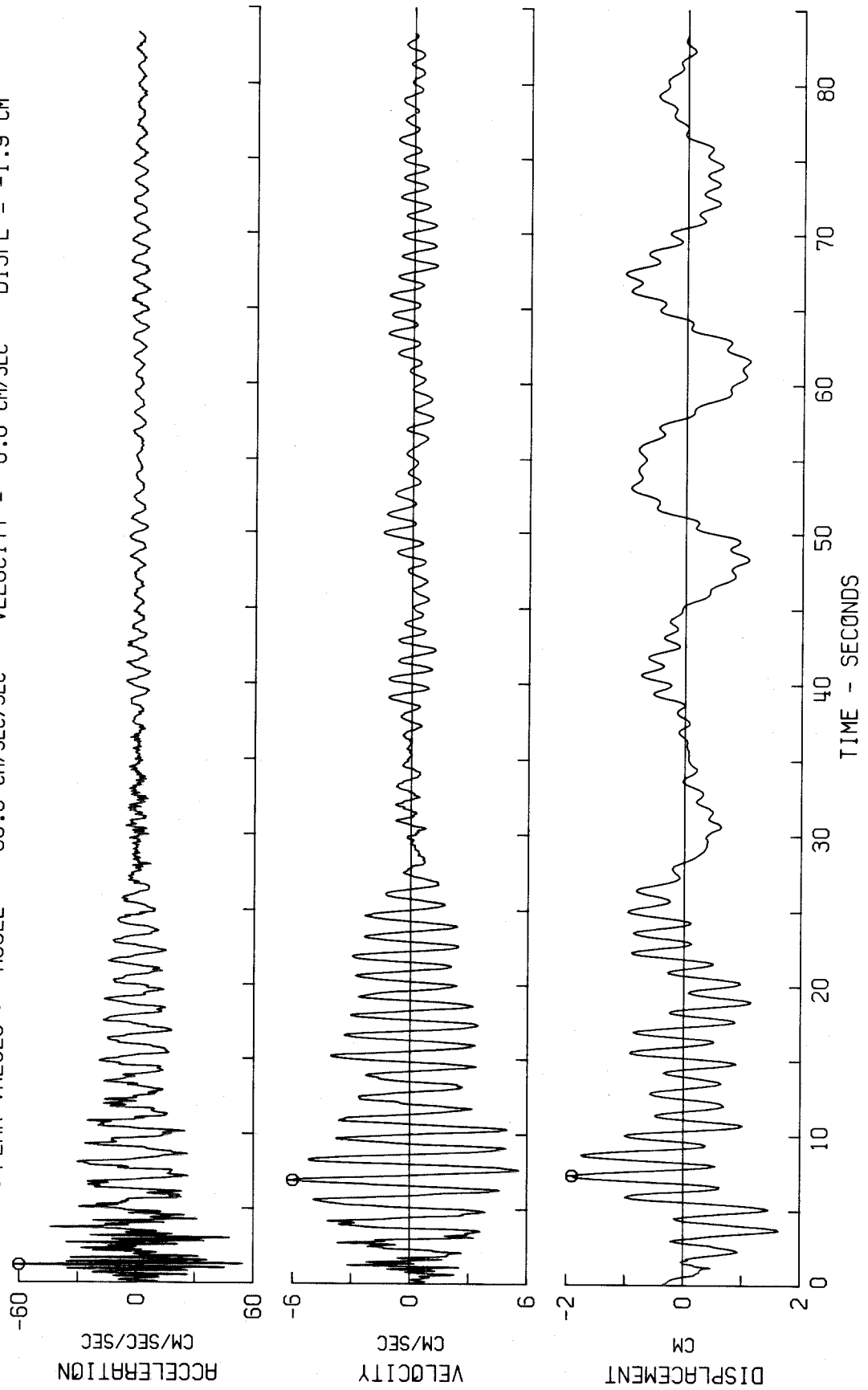
SAN FRANCISCO EARTHQUAKE FORESHOCK MAR 22, 1957 - 1048 PST
IIV320 57.001.0 SOUTHERN PACIFIC BLDG., BSMT, SAN FRANCISCO, CAL COMP UP
⊙ PEAK VALUES : ACCEL = 1.5 CM/SEC/SEC VELOCITY = 0.3 CM/SEC DISPL = 0.5 CM



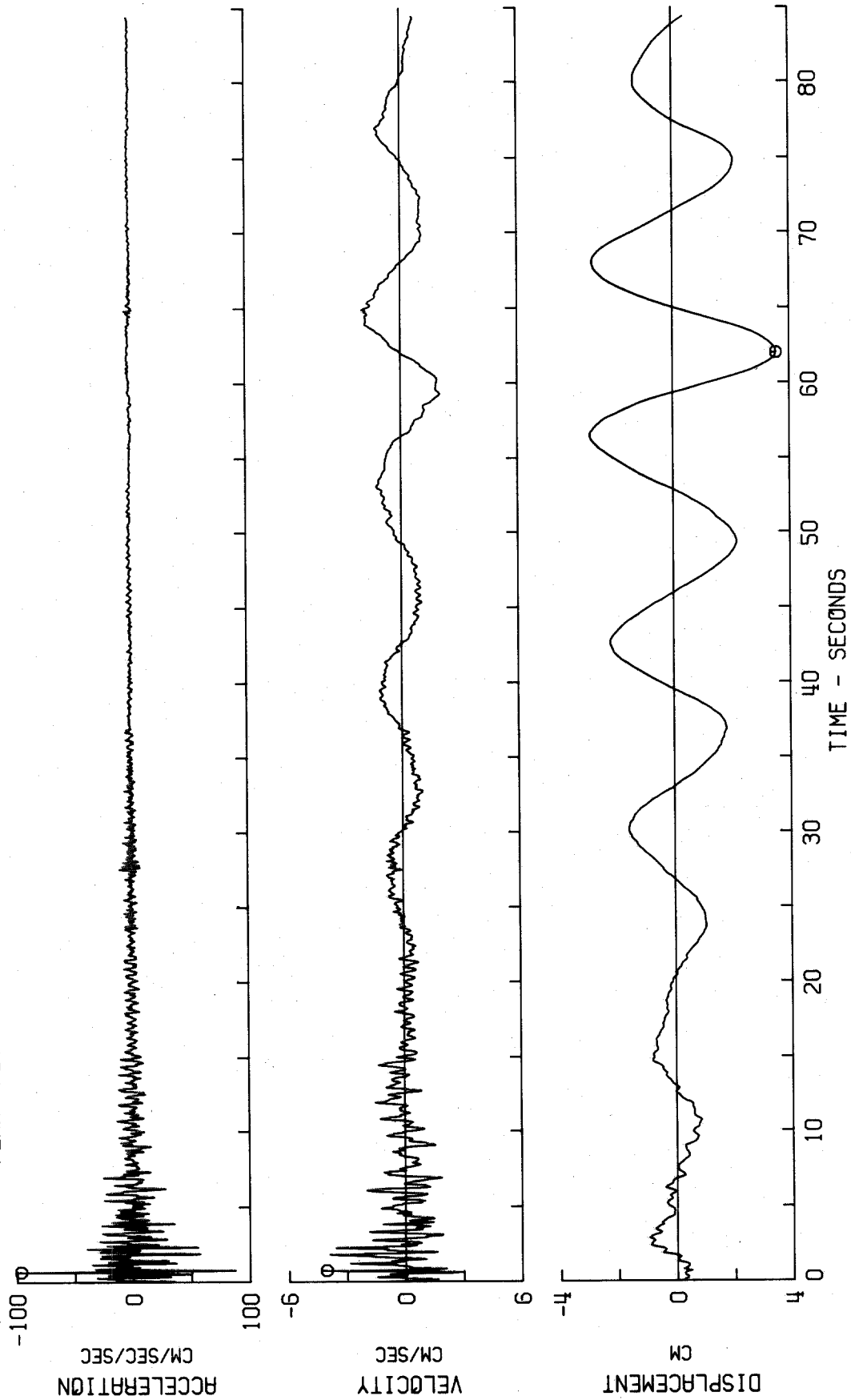
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
IIV321 57.011.0 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL. COMP N26E
o PEAK VALUES : ACCEL = -88.2 CM/SEC/SEC VELOCITY = 10.7 CM/SEC DISPL = 4.3 CM



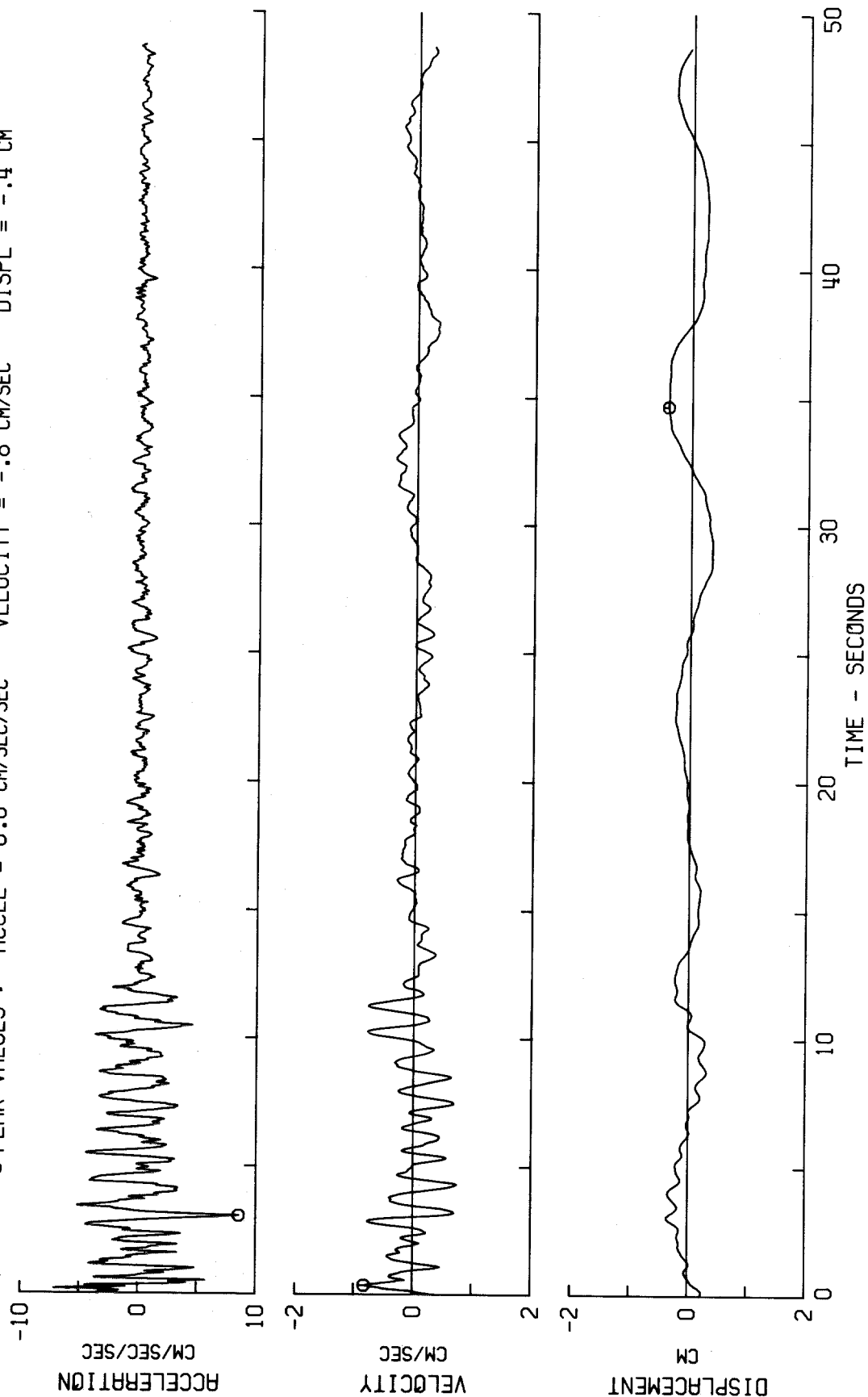
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
IIV321 57.011.0 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL. COMP N64W
⊙ PEAK VALUES : ACCEL = -60.0 CM/SEC/SEC VELOCITY = -6.0 CM/SEC DISPL = -1.9 CM



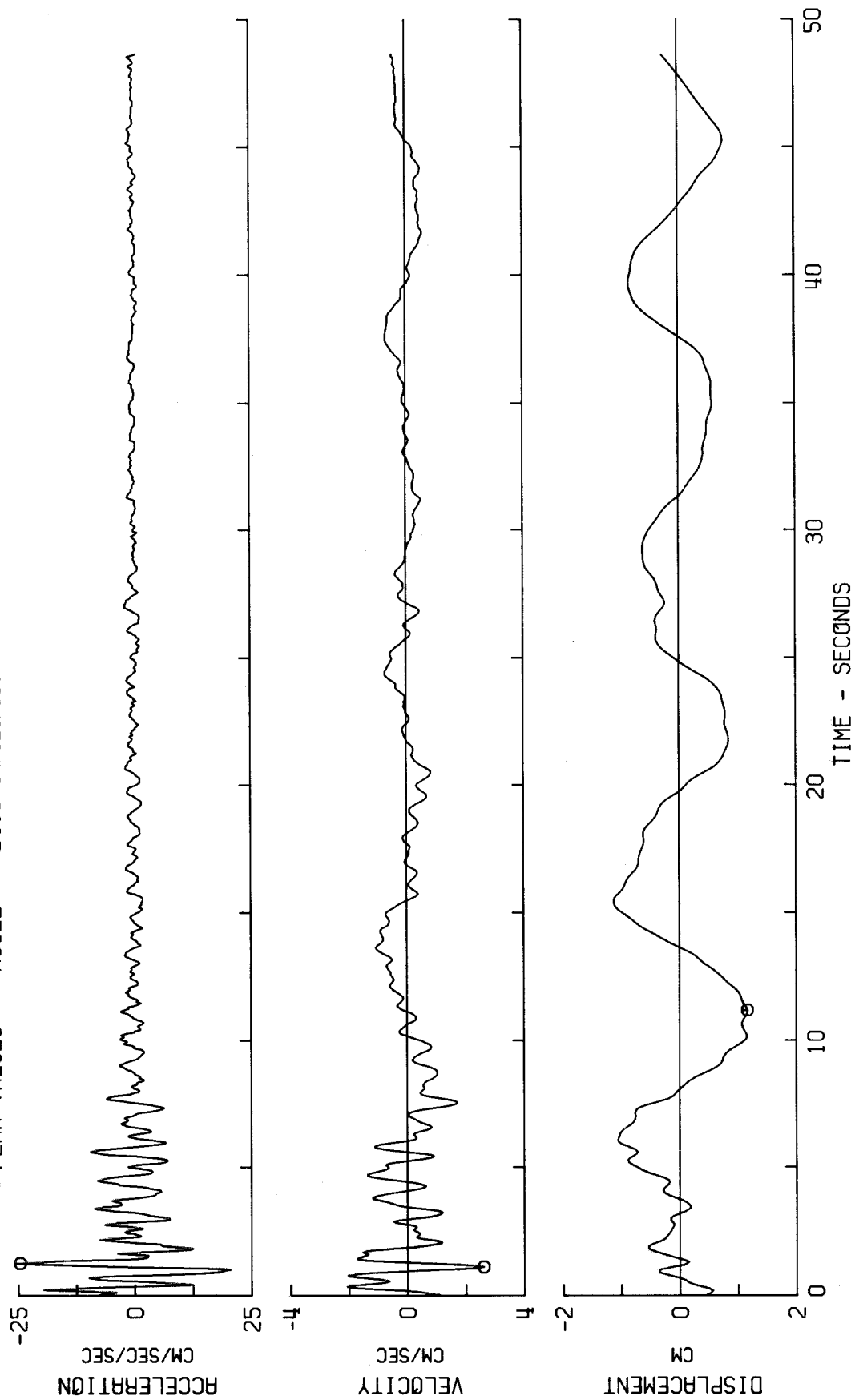
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
 IIV321 57.011.0 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL. COMP UP
 @ PEAK VALUES: ACCEL = -96.4 CM/SEC/SEC VELOCITY = -4.1 CM/SEC DISPL = 3.5 CM



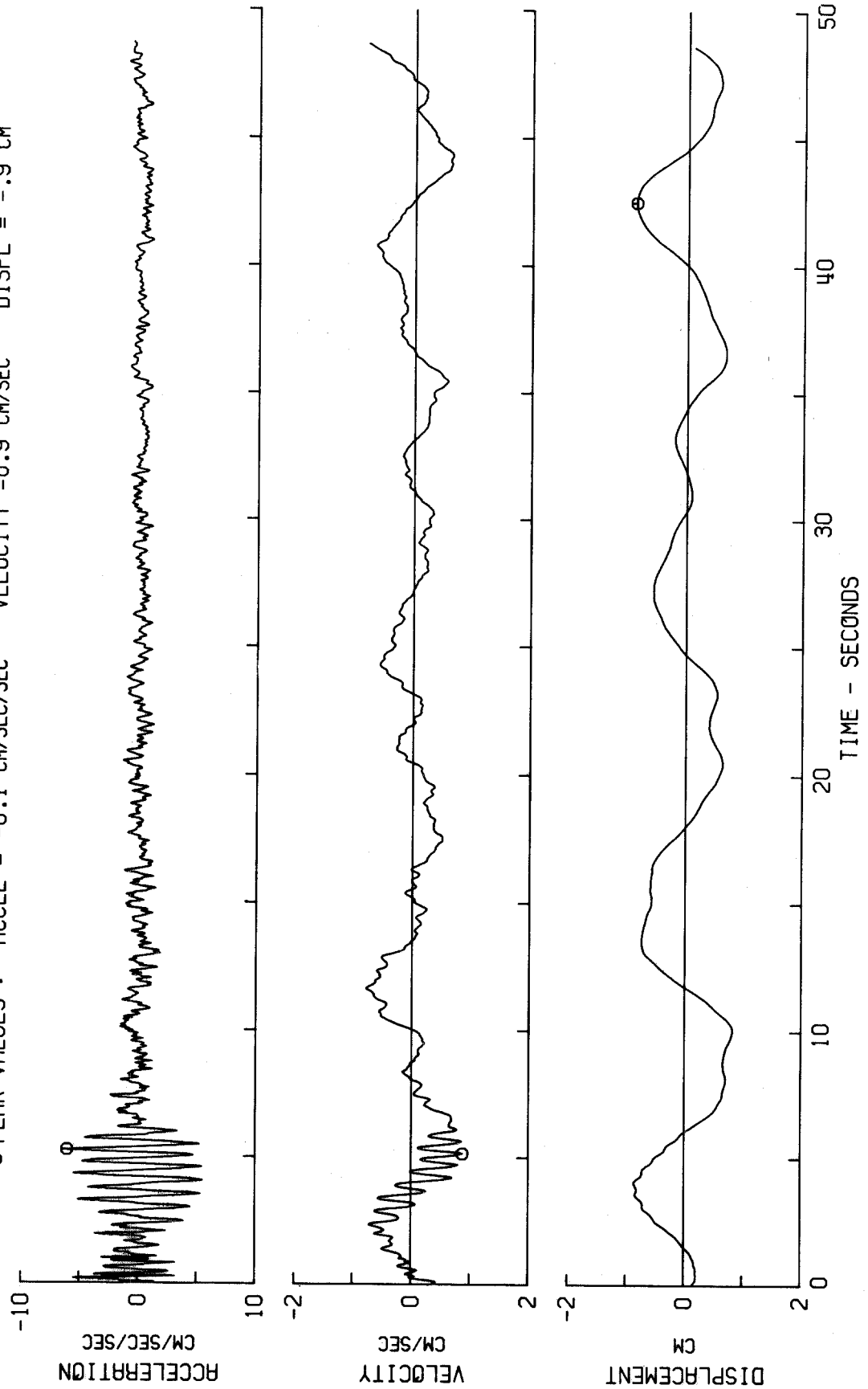
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
 IIV322 57.014.0 SOUTHERN PACIFIC BLDG., BSMT., SAN FRANCISCO, CAL COMP N45E
 O PEAK VALUES : ACCEL = 8.6 CM/SEC/SEC VELOCITY = -.8 CM/SEC DISPL = -.4 CM



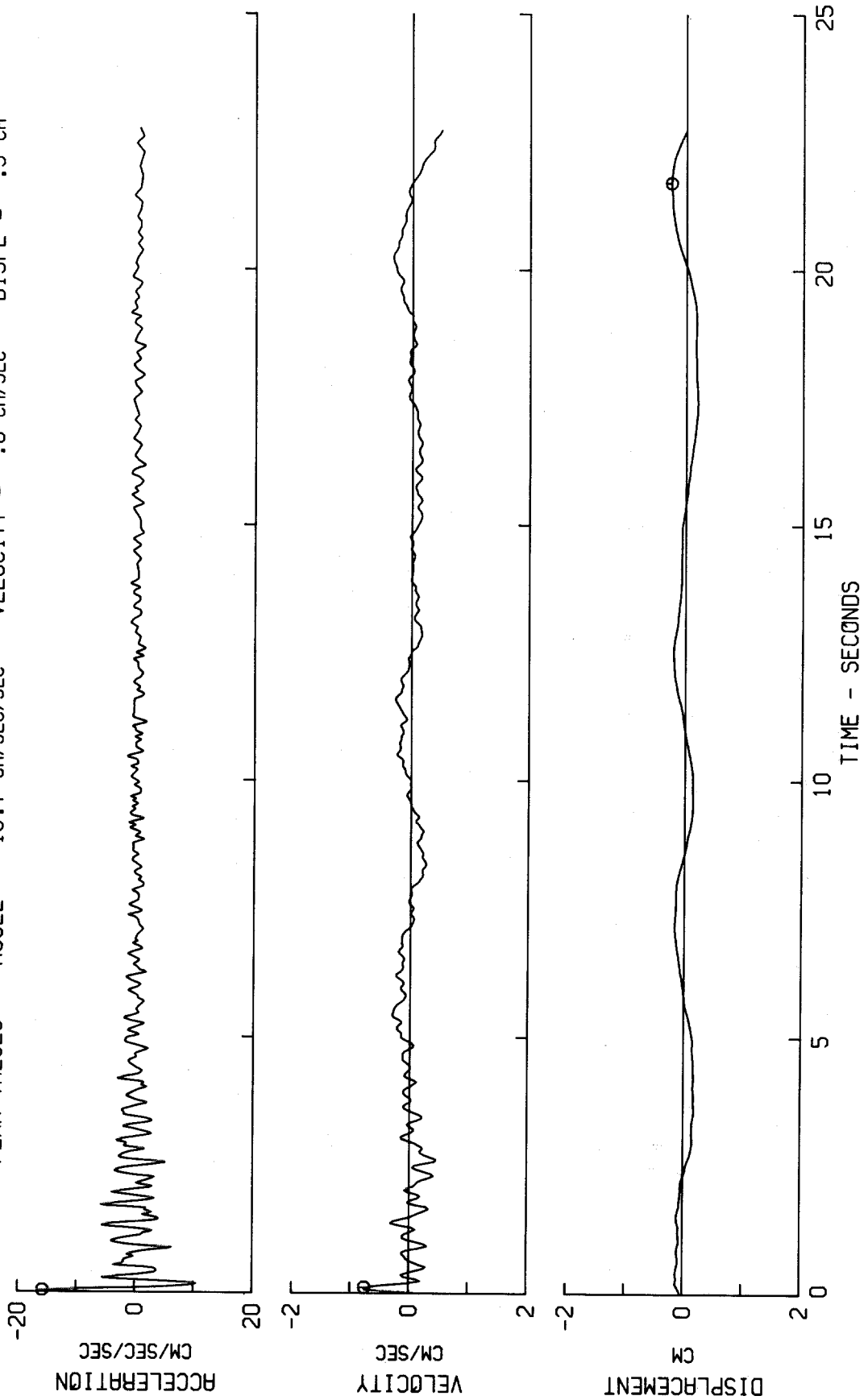
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV322 57.014.0 SOUTHERN PACIFIC BLDG., BSMT, SAN FRANCISCO, CAL COMP N45W
Ø PEAK VALUES : ACCEL = -24.6 CM/SEC/SEC VELOCITY = 2.6 CM/SEC DISPL = 1.2 CM



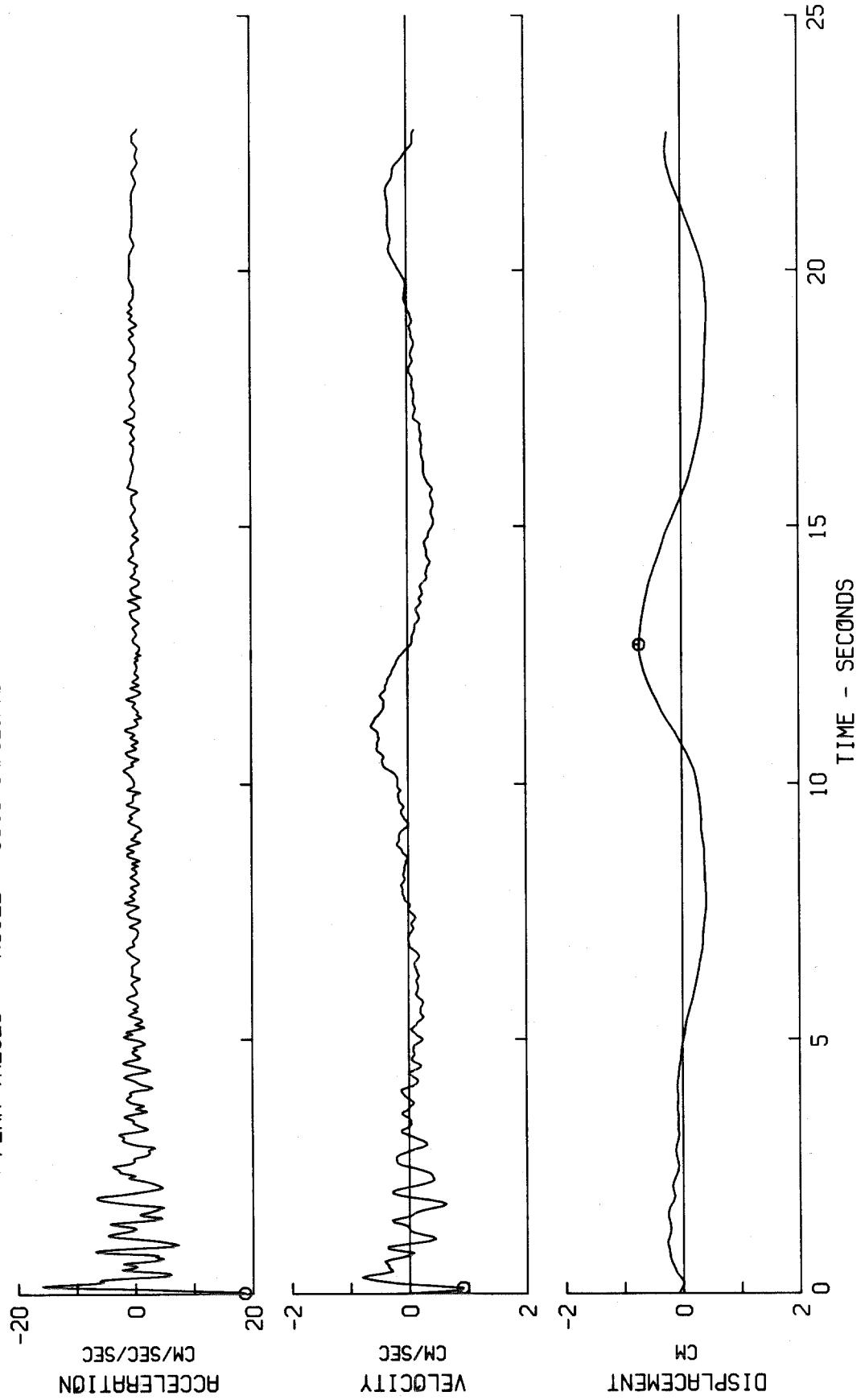
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV322 57.014.0 SOUTHERN PACIFIC BLDG., BSMT, SAN FRANCISCO, CAL COMP UP
⊙ PEAK VALUES : ACCEL = -6.1 CM/SEC/SEC VELOCITY = 0.9 CM/SEC DISPL = -.9 CM



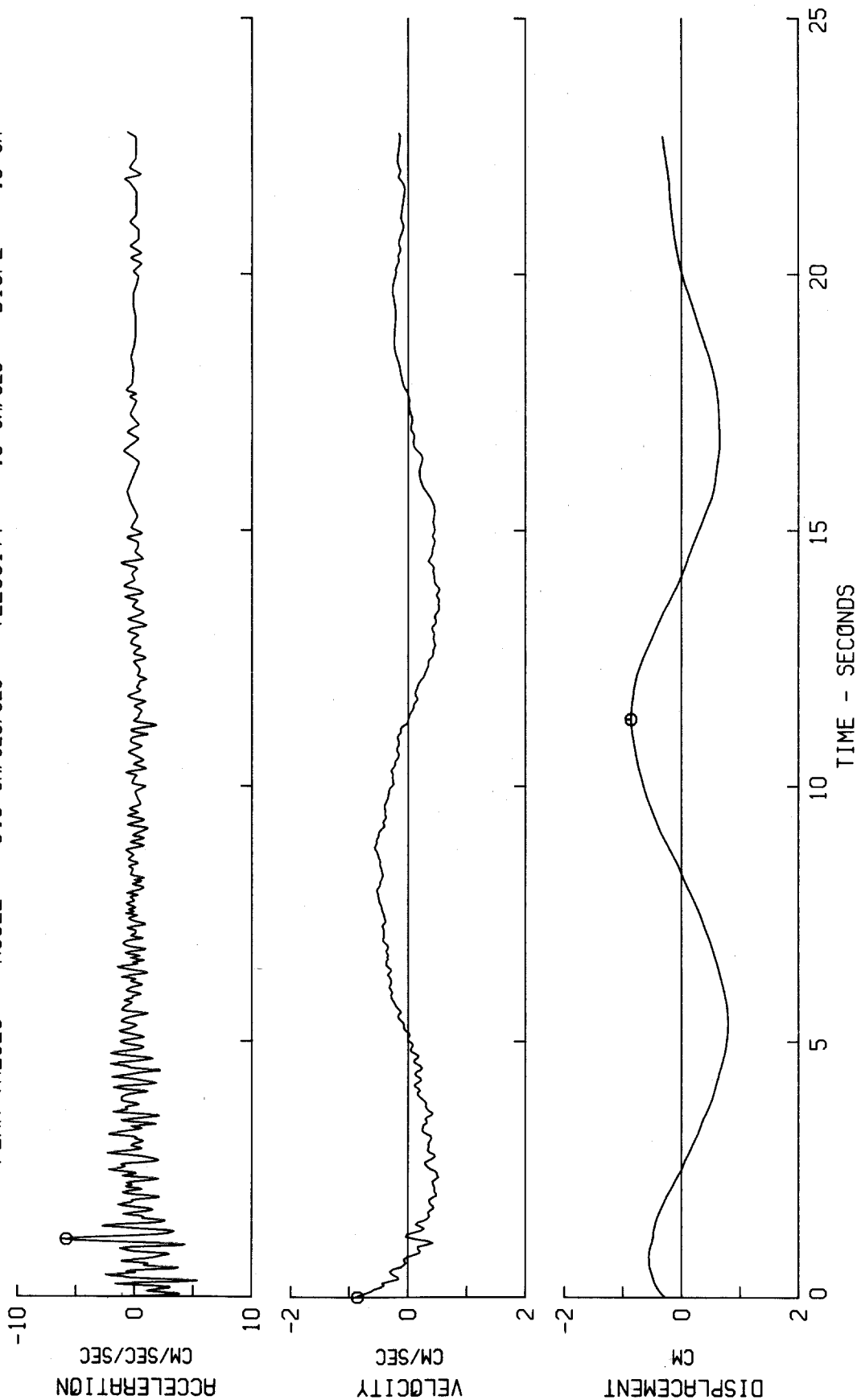
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV323 57.015.0 ALEXANDER BLDG., BSMT., SAN FRANCISCO, CAL COMP N81E
o PEAK VALUES : ACCEL = -15.7 CM/SEC/SEC VELOCITY = -.8 CM/SEC DISPL = -.3 CM



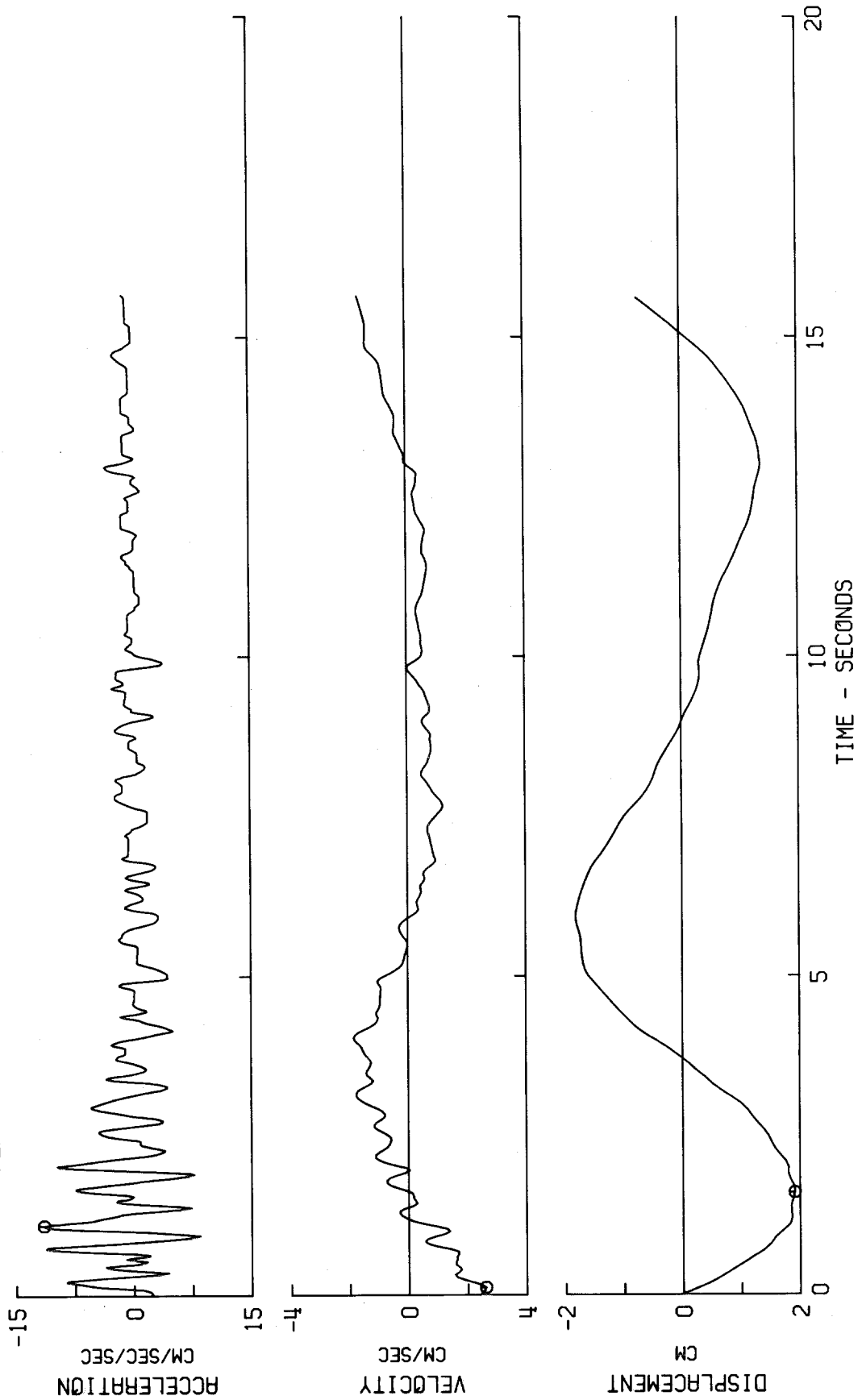
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV323 57.015.0 ALEXANDER BLDG., BSMT., SAN FRANCISCO, CAL COMP NO9W
⊙ PEAK VALUES : ACCEL = 18.6 CM/SEC/SEC VELOCITY = 0.9 CM/SEC DISPL = -.7 CM



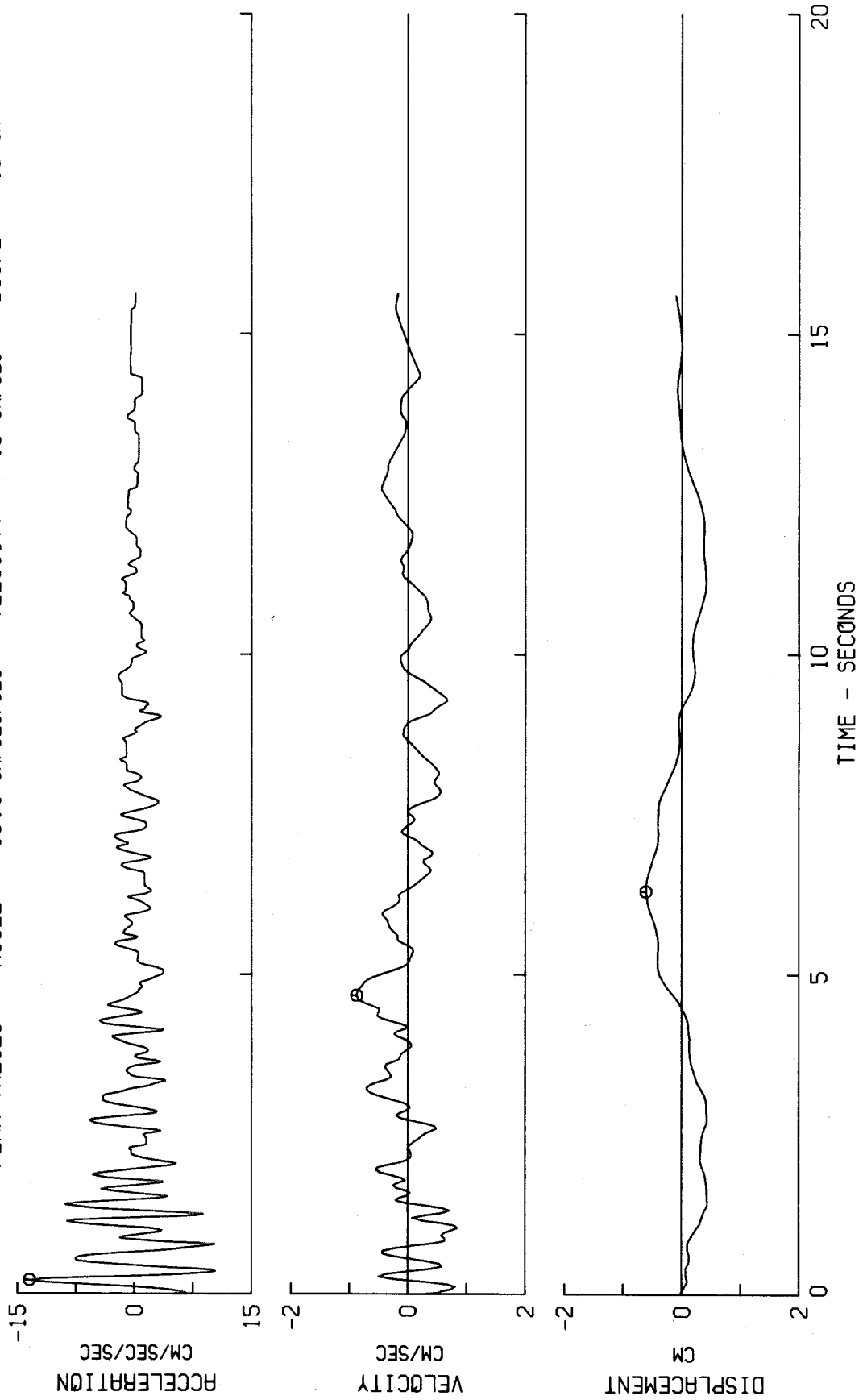
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV323 57.015.0 ALEXANDER BLDG., BSMT., SAN FRANCISCO, CAL COMP UP
⊙ PEAK VALUES : ACCEL = -5.8 CM/SEC/SEC VELOCITY = -0.9 CM/SEC DISPL = -0.9 CM



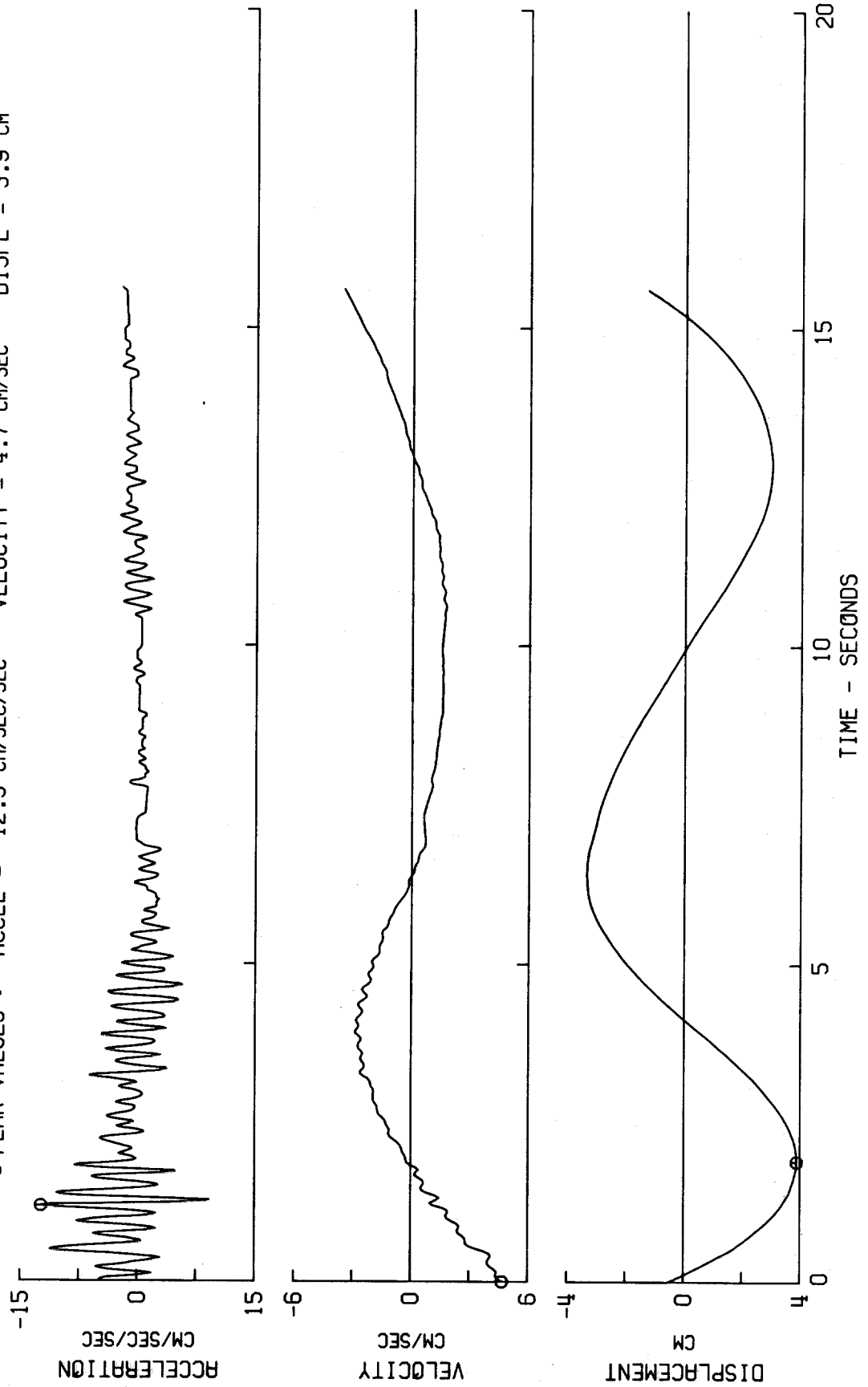
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV324 57.016.0 ALEXANDER BLDG., 11TH FL., SAN FRANCISCO, CAL. COMP N81E
⊙ PEAK VALUES : ACCEL = -11.5 CM/SEC/SEC VELOCITY = 2.6 CM/SEC DISPL = 1.9 CM



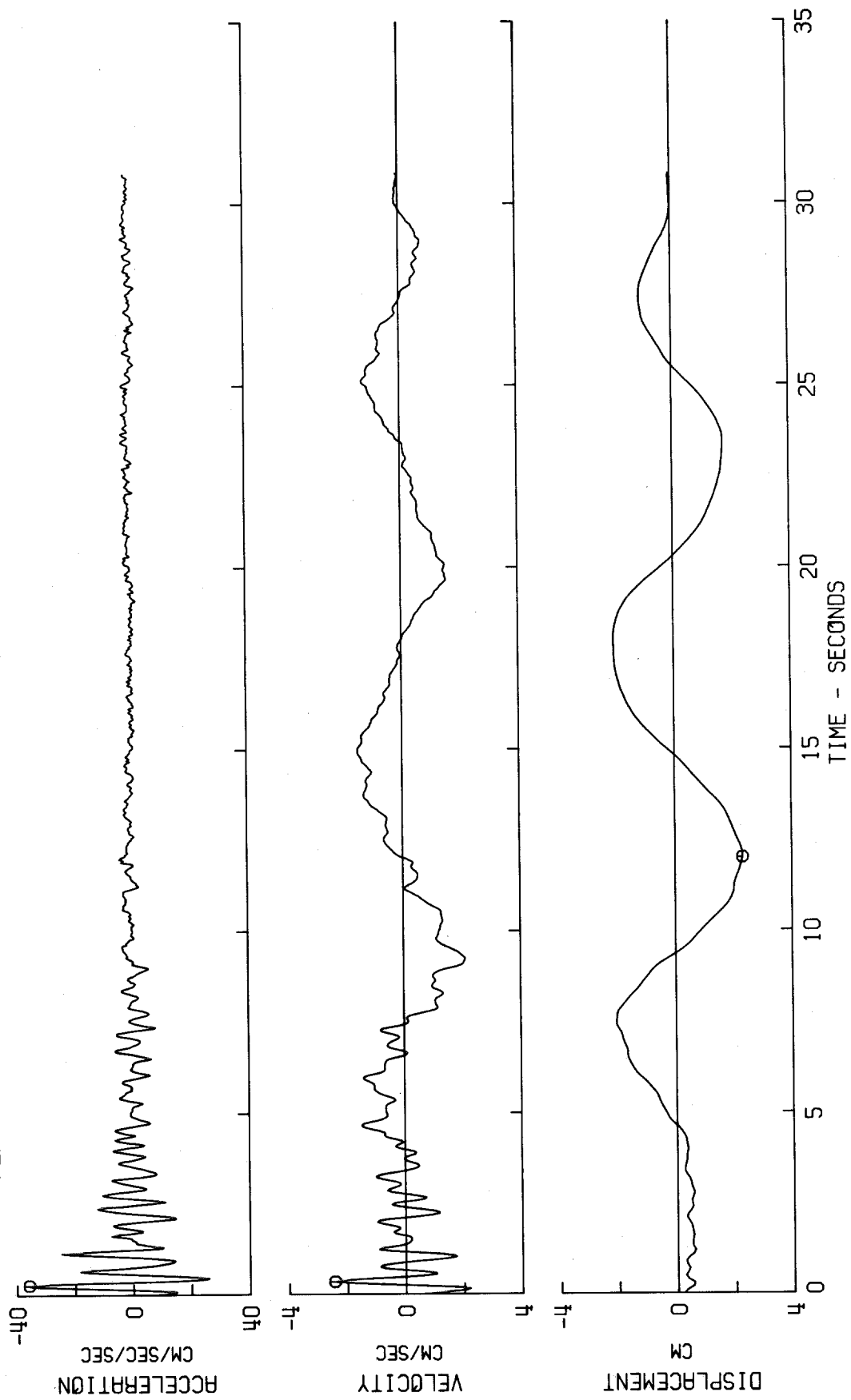
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV324 57.016.0 ALEXANDER BLDG., 11TH FL., SAN FRANCISCO, CAL. COMP S09E
⊙ PEAK VALUES : ACCEL = -13.4 CM/SEC/SEC VELOCITY = -.9 CM/SEC DISPL = -.6 CM



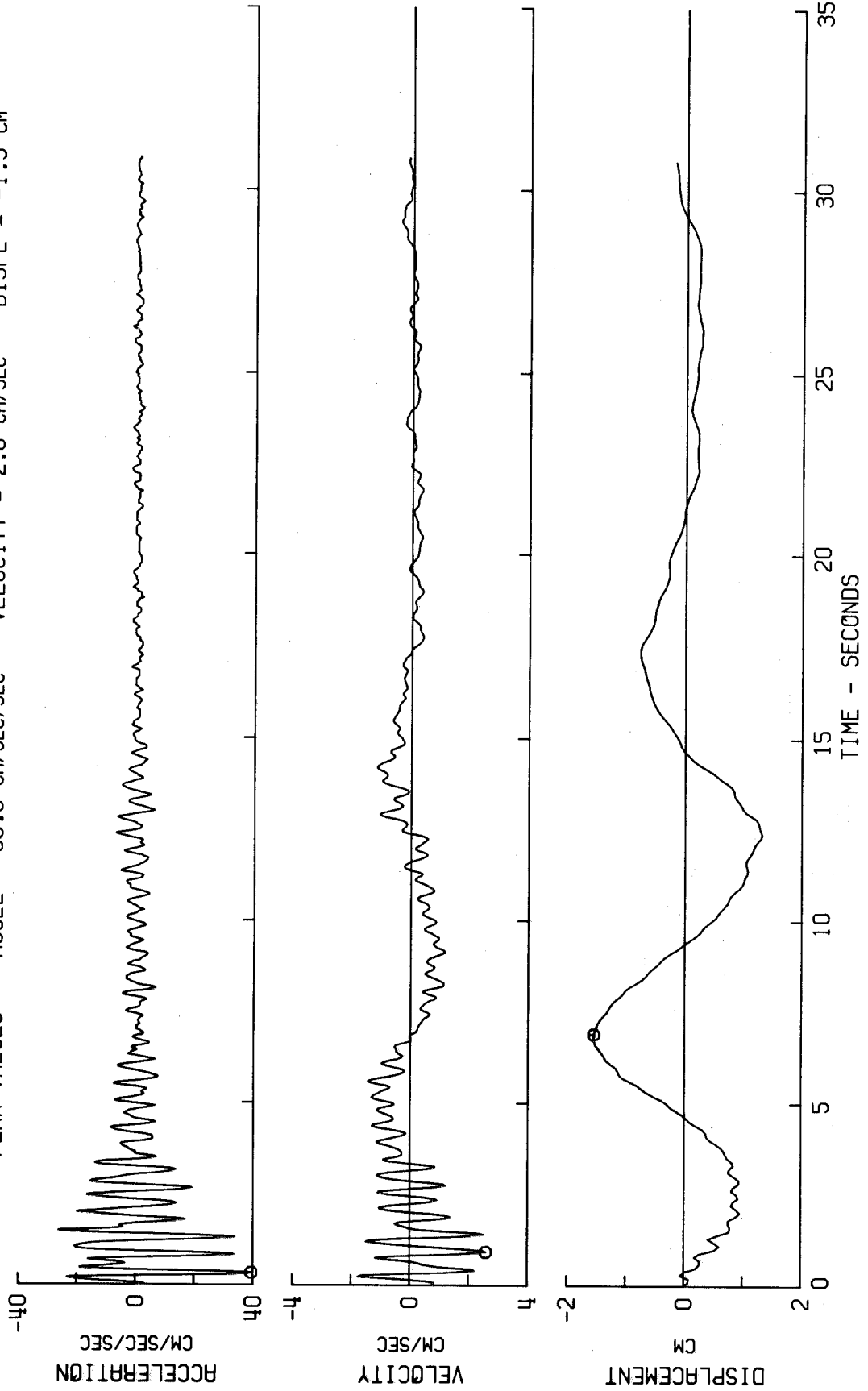
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
 IIV324 57.016.0 ALEXANDER BLDG., 11TH FL., SAN FRANCISCO, CAL. COMP UP
 ○ PEAK VALUES : ACCEL = -12.3 CM/SEC/SEC VELOCITY = 4.7 CM/SEC DISPL = 3.9 CM



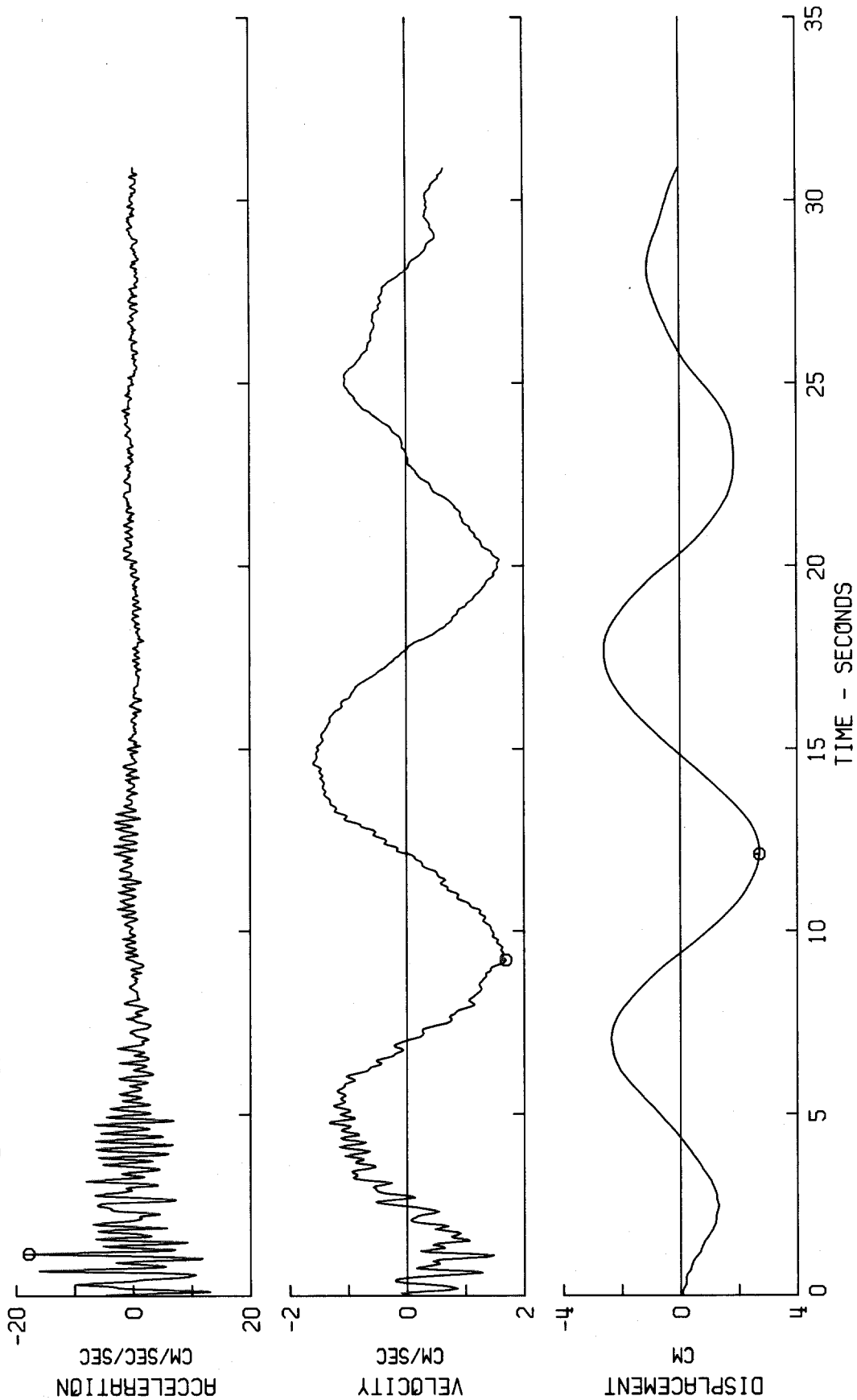
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV325 57.017.0 ALEXANDER BLDG., 16TH FL., SAN FRANCISCO, CAL. COMP S09E
⊙ PEAK VALUES : ACCEL = -35.8 CM/SEC/SEC VELOCITY = -2.4 CM/SEC DISPL = 2.3 CM



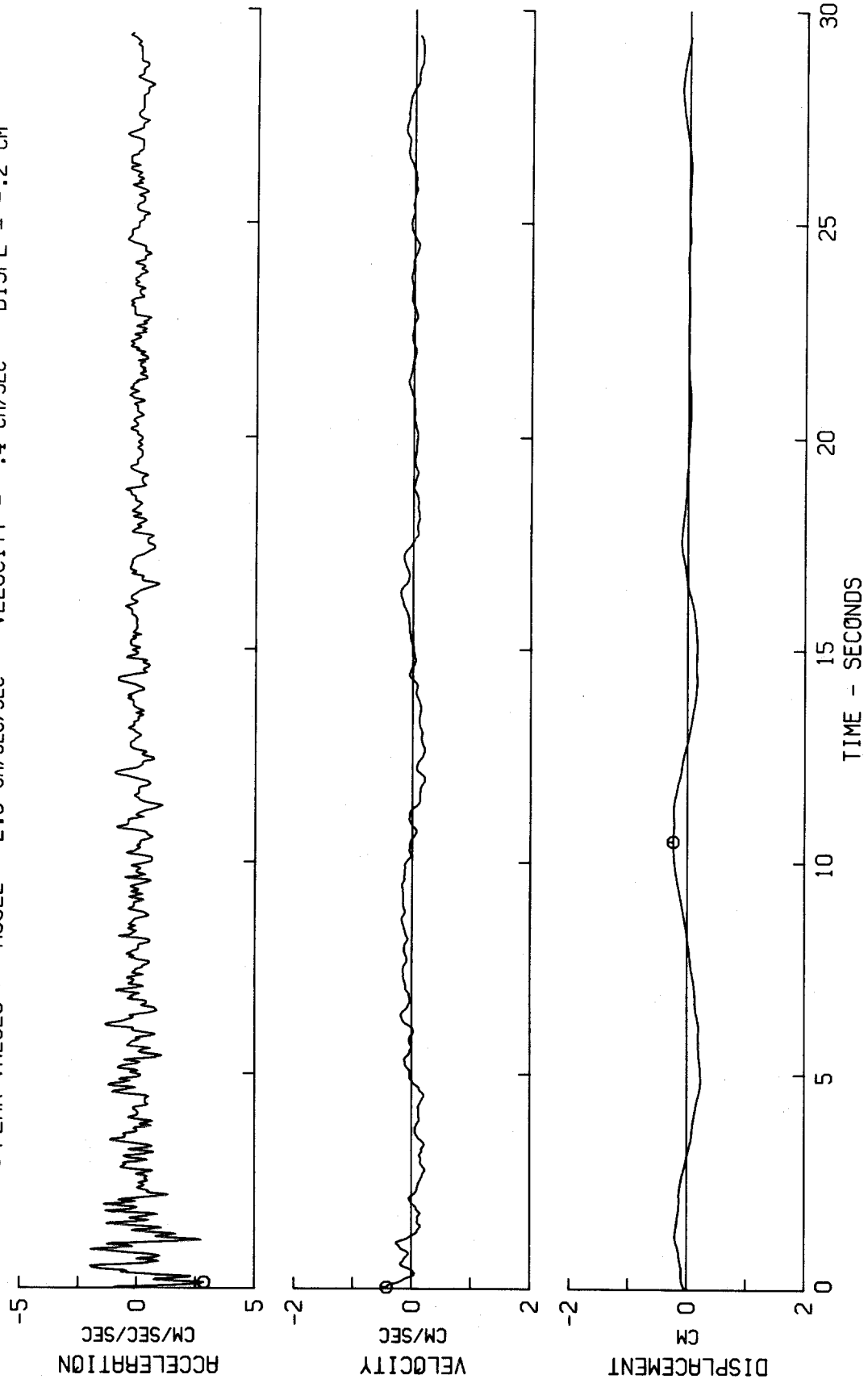
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV325 57.017.0 ALEXANDER BLDG., 16TH FL., SAN FRANCISCO, CAL. COMP S81W
PEAK VALUES : ACCEL = 39.6 CM/SEC/SEC VELOCITY = 2.6 CM/SEC DISPL = -1.5 CM



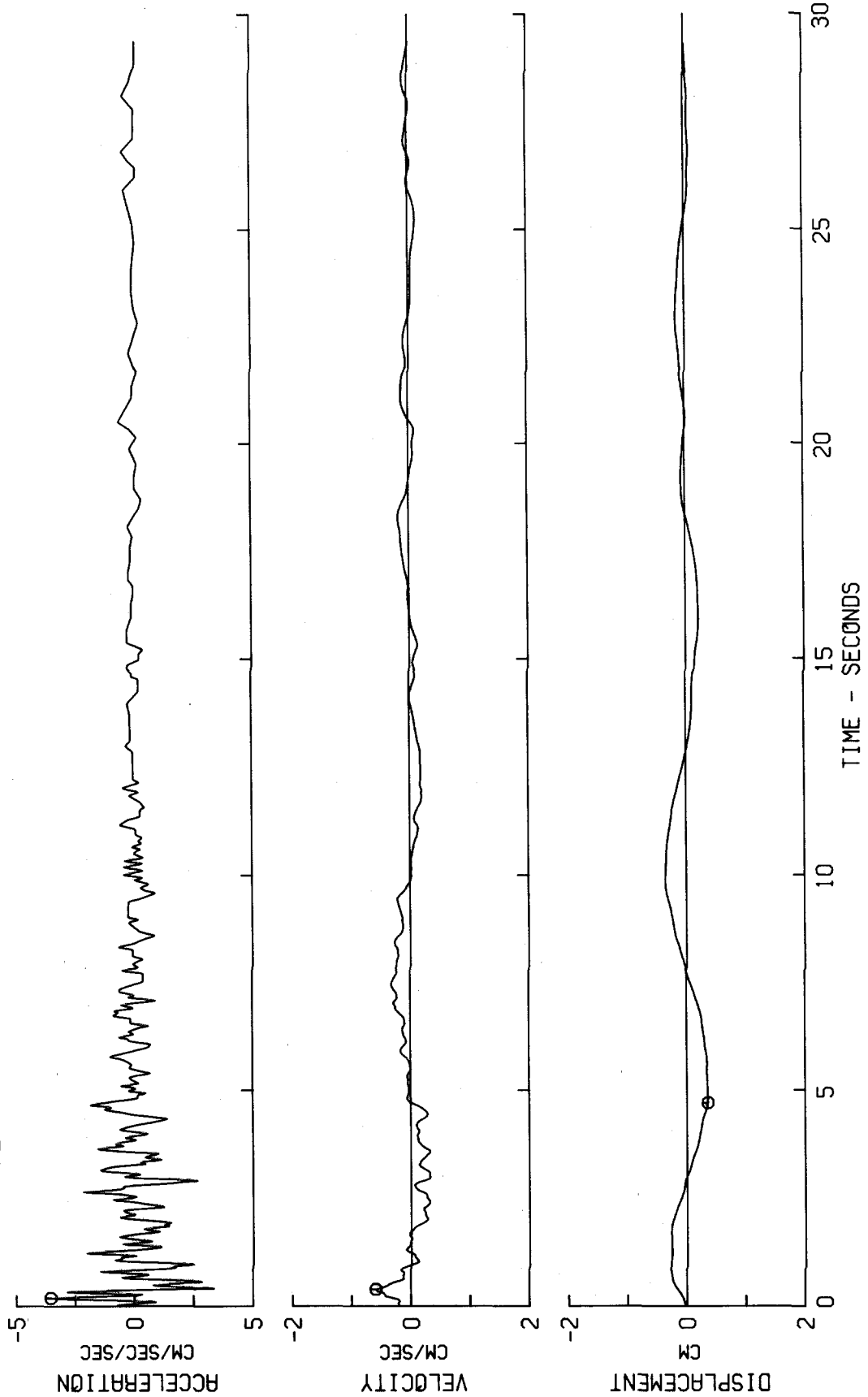
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV325 57.017.0 ALEXANDER BLDG., 16TH FL., SAN FRANCISCO, CAL. COMP UP
PEAK VALUES : ACCEL = -17.8 CM/SEC/SEC VELOCITY = 1.7 CM/SEC DISPL = 2.7 CM



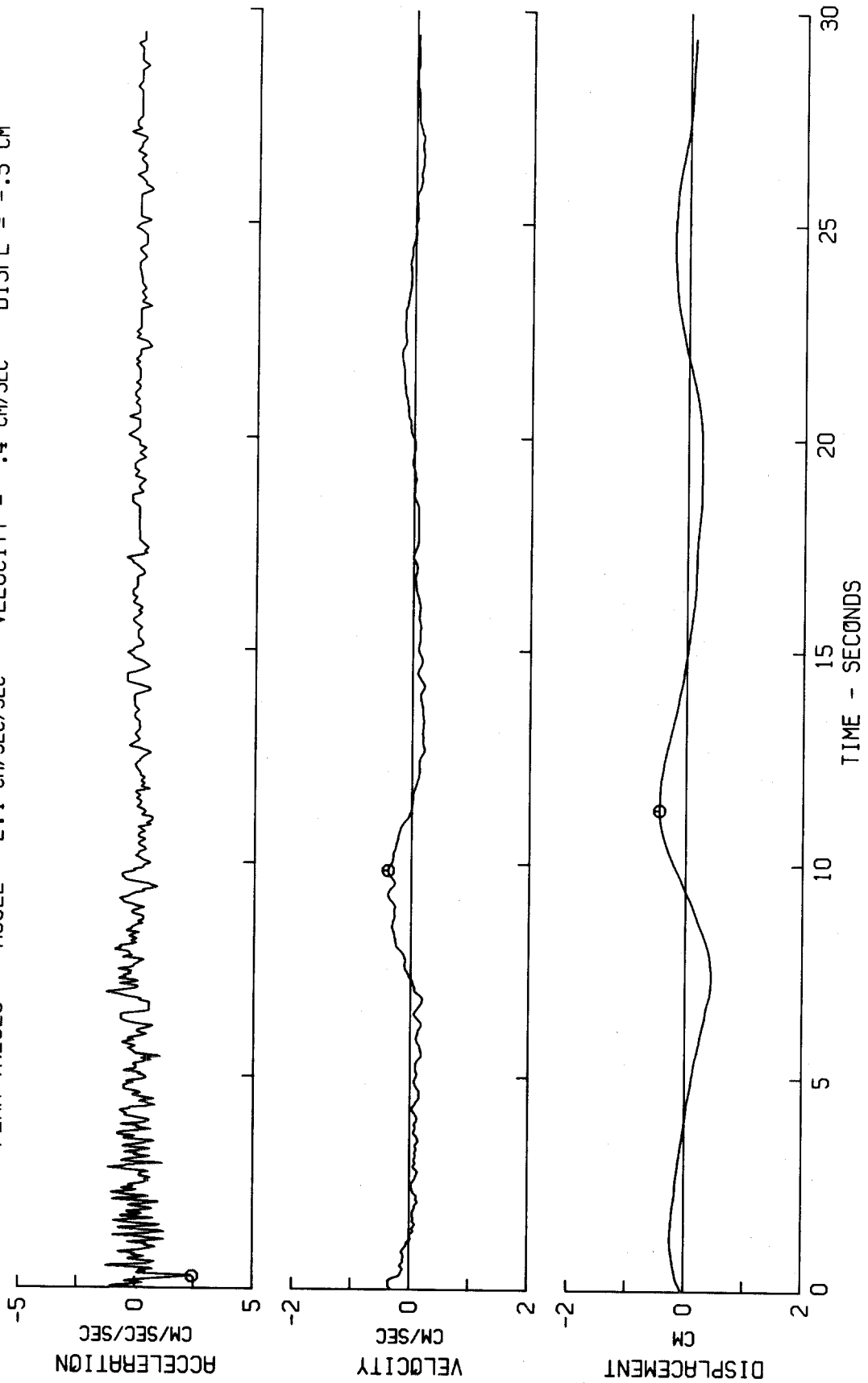
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV326 57.020.0 OAKLAND CITY HALL, BSMT, OAKLAND, CAL. COMP N26E
⊙ PEAK VALUES : ACCEL = 2.9 CM/SEC/SEC VELOCITY = -.4 CM/SEC DISPL = -.2 CM



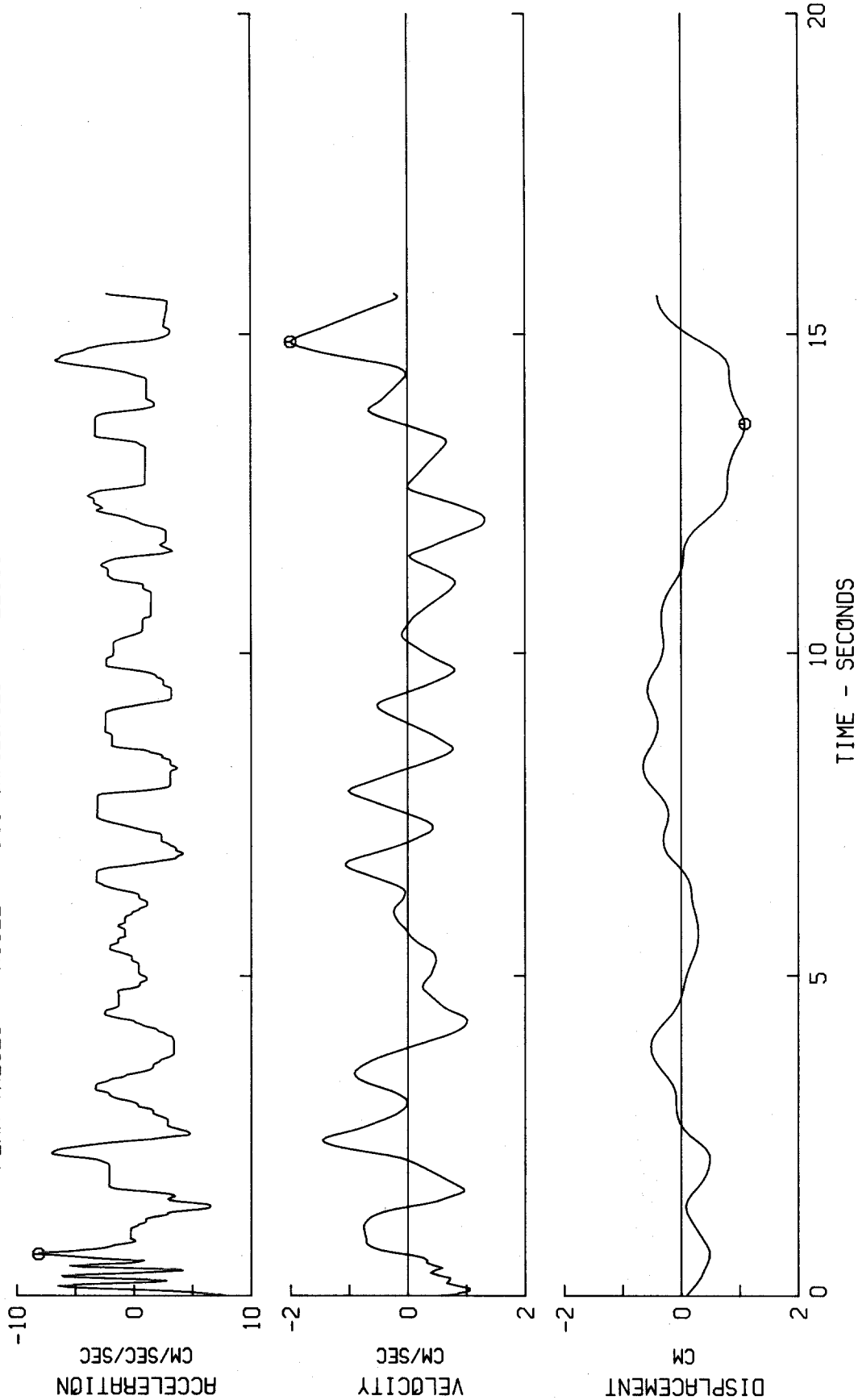
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV326 57.020.0 OAKLAND CITY HALL, BSMT, OAKLAND, CAL. COMP S64E
o PEAK VALUES : ACCEL = -3.5 CM/SEC/SEC VELOCITY = -.6 CM/SEC DISPL = 0.4 CM



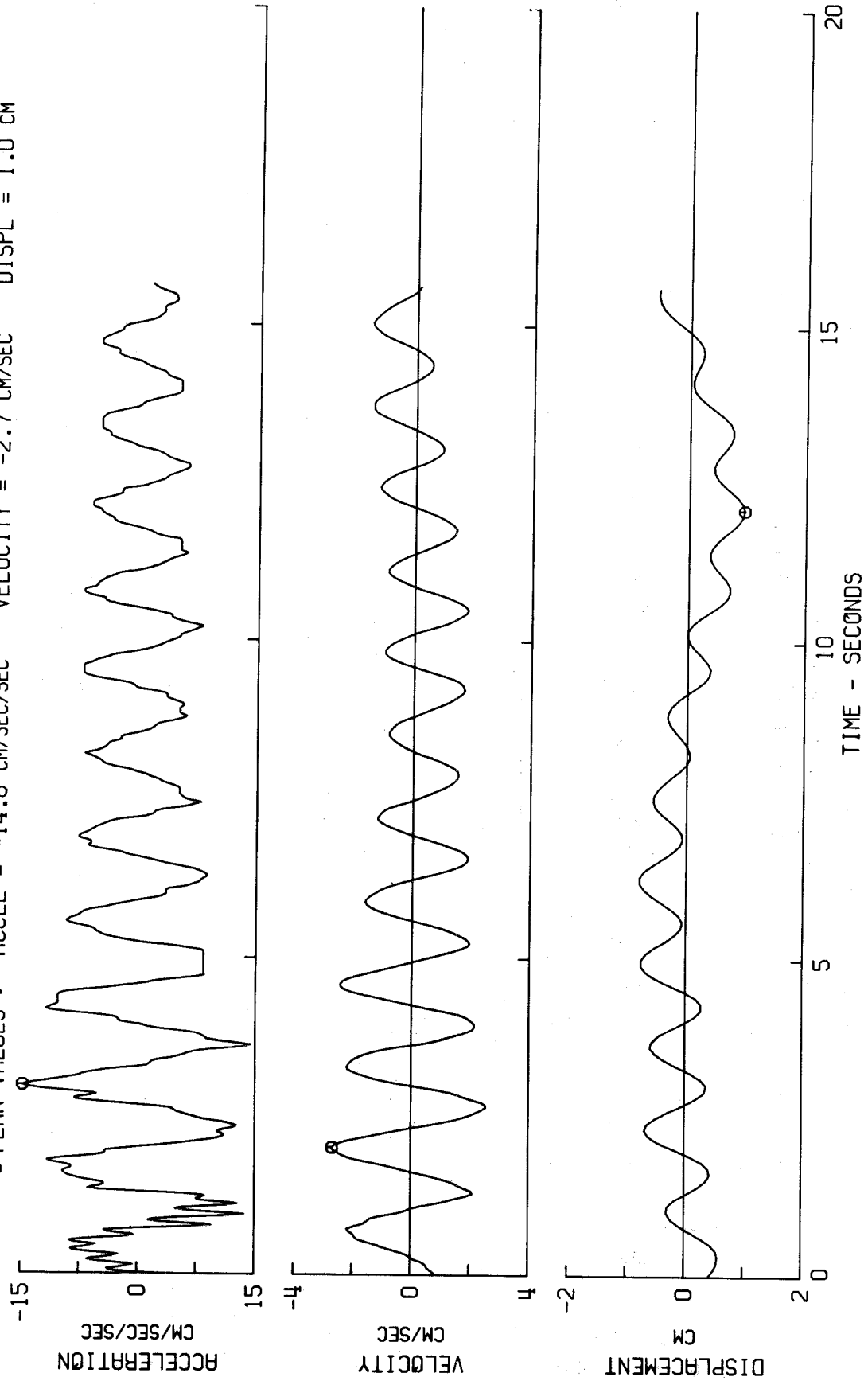
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV326 57.020.0 OAKLAND CITY HALL, BSMT, OAKLAND, CAL. COMP UP
⊙ PEAK VALUES : ACCEL = 2.4 CM/SEC/SEC VELOCITY = -.4 CM/SEC DISPL = -.5 CM



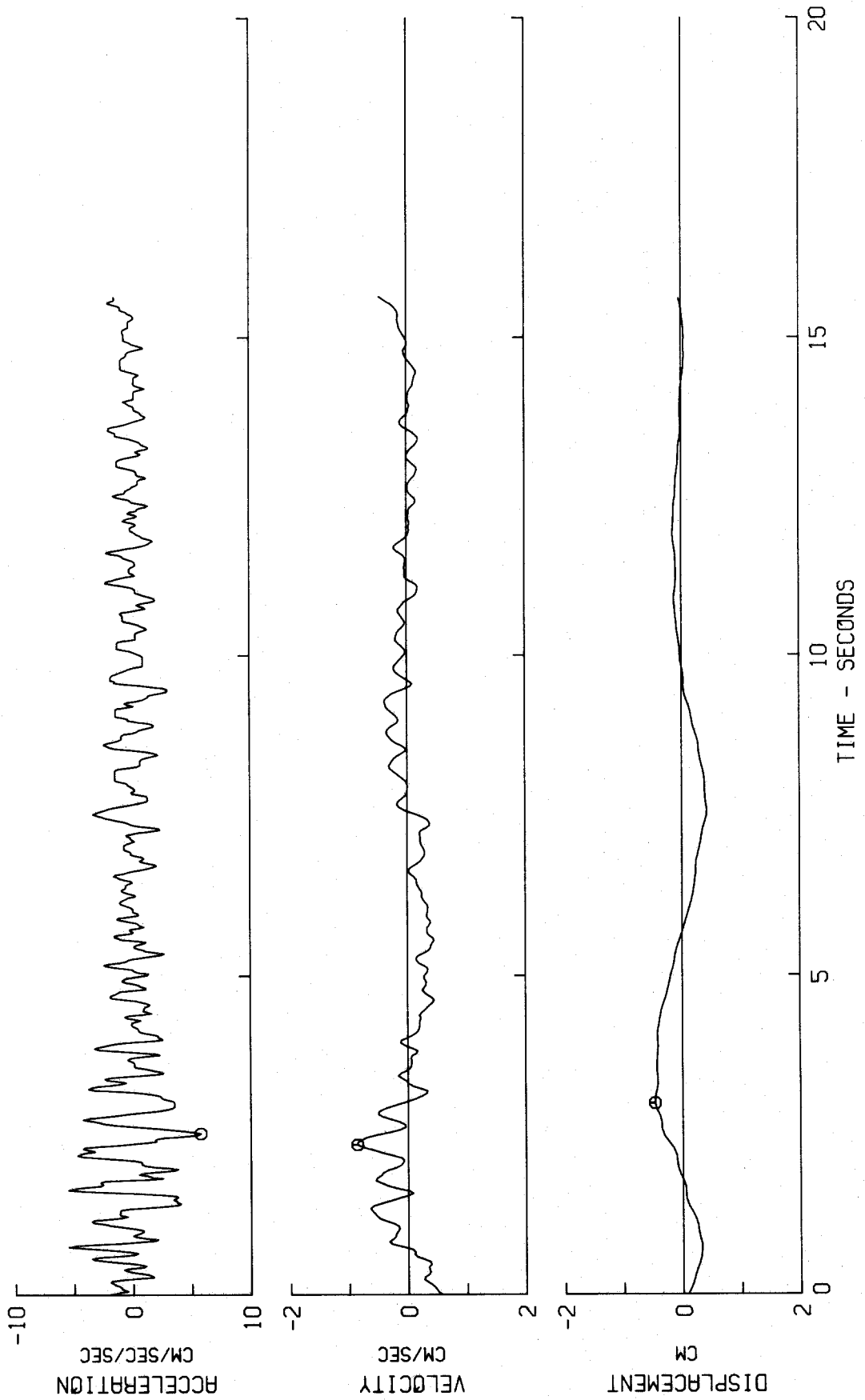
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV327 57.021.0 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL. COMP N26E
PEAK VALUES: ACCEL = -8.1 CM/SEC/SEC VELOCITY = -2.0 CM/SEC DISPL = 1.1 CM



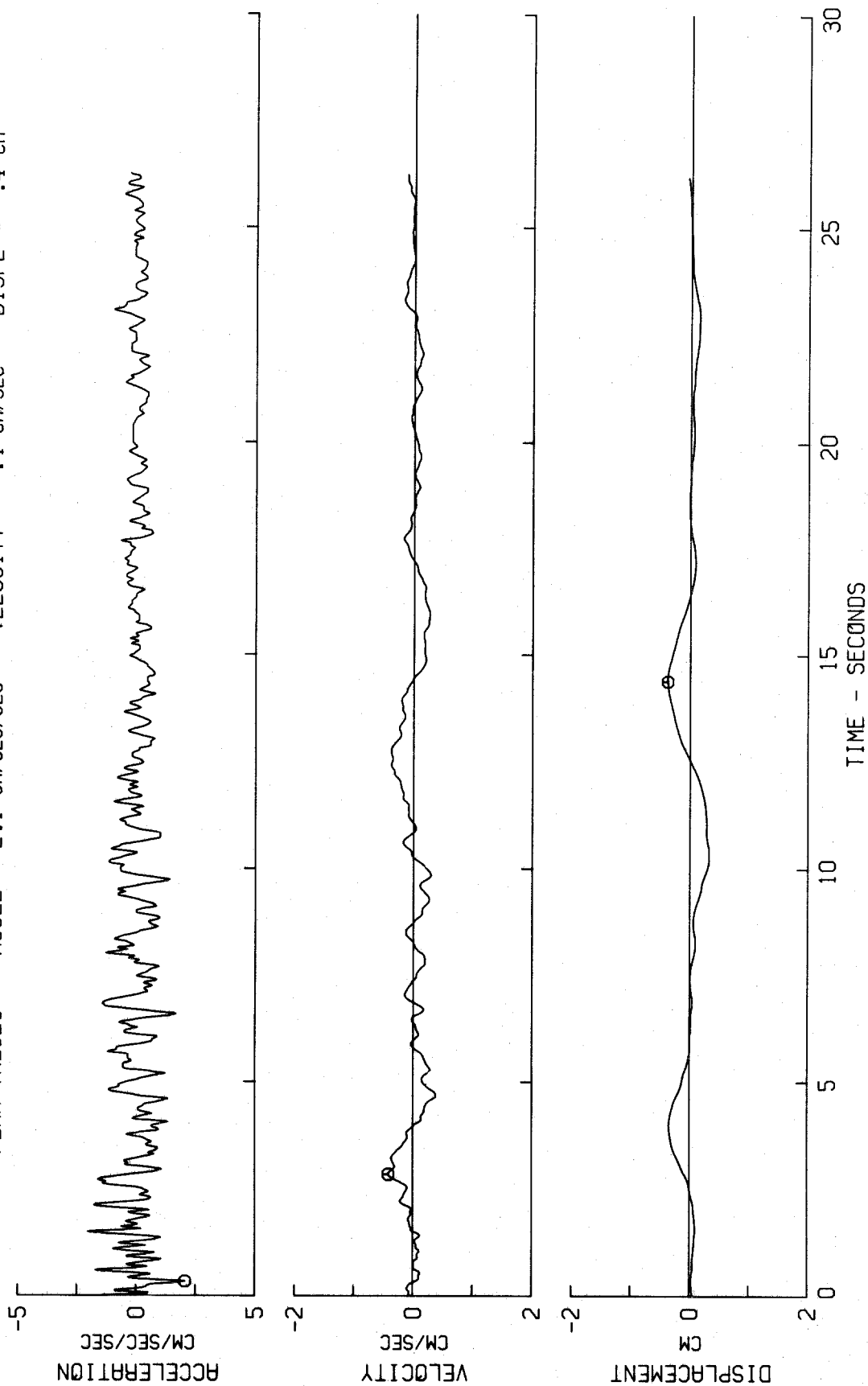
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV327 57.021.0 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL. COMP N64W
PEAK VALUES: ACCEL = -14.8 CM/SEC/SEC VELOCITY = -2.7 CM/SEC DISPL = 1.0 CM



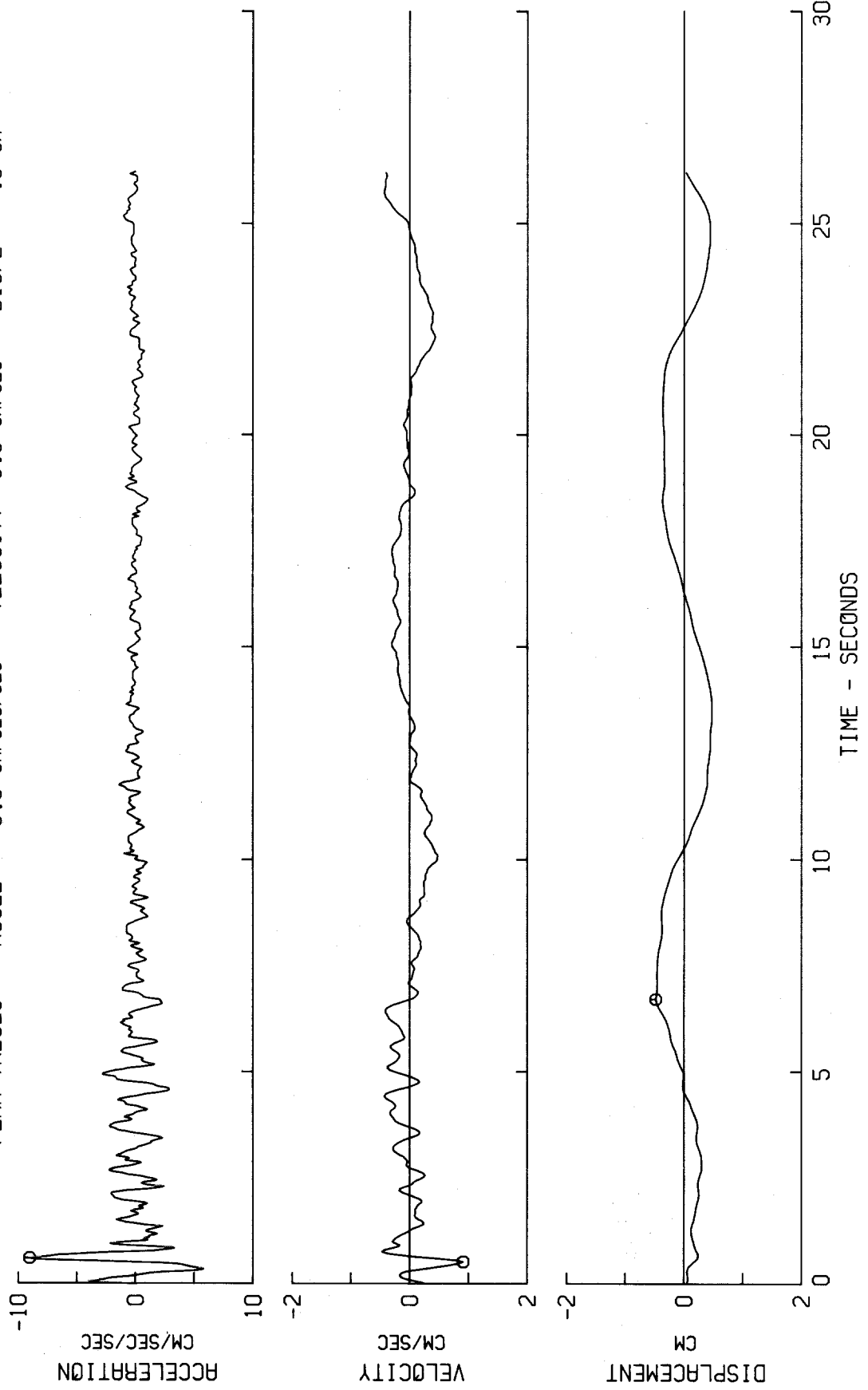
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
IIV327 57.021.0 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL. COMP UP
o PEAK VALUES : ACCEL = 5.8 CM/SEC/SEC VELOCITY = -.9 CM/SEC DISPL = -.5 CM



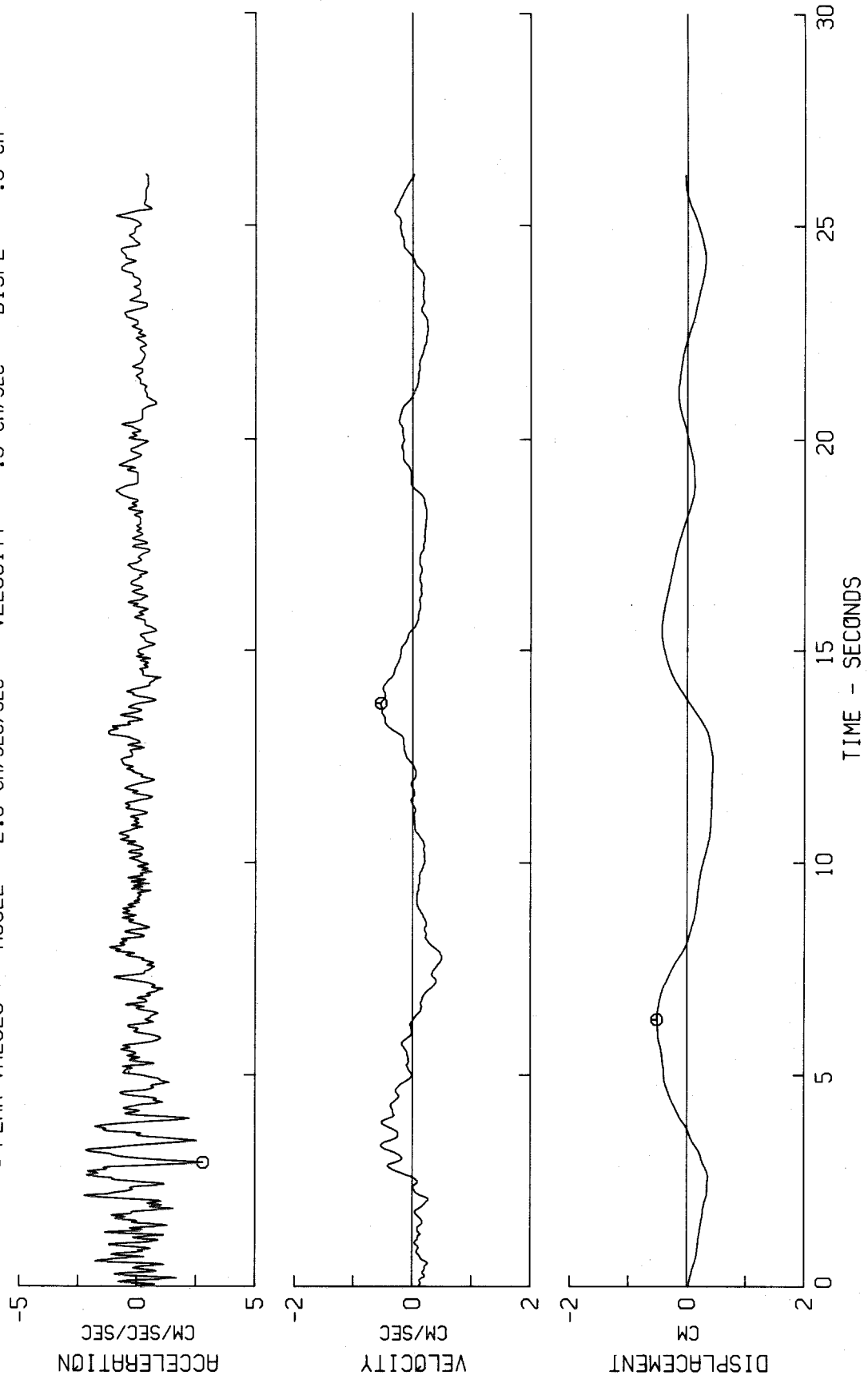
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1627 PST
 IIV328 57.022.0 SOUTHERN PACIFIC BLDG., BSMT., SAN FRANCISCO, CAL. COMP N45E
 ○ PEAK VALUES : ACCEL = 2.1 CM/SEC/SEC VELOCITY = -.4 CM/SEC DISPL = -.4 CM



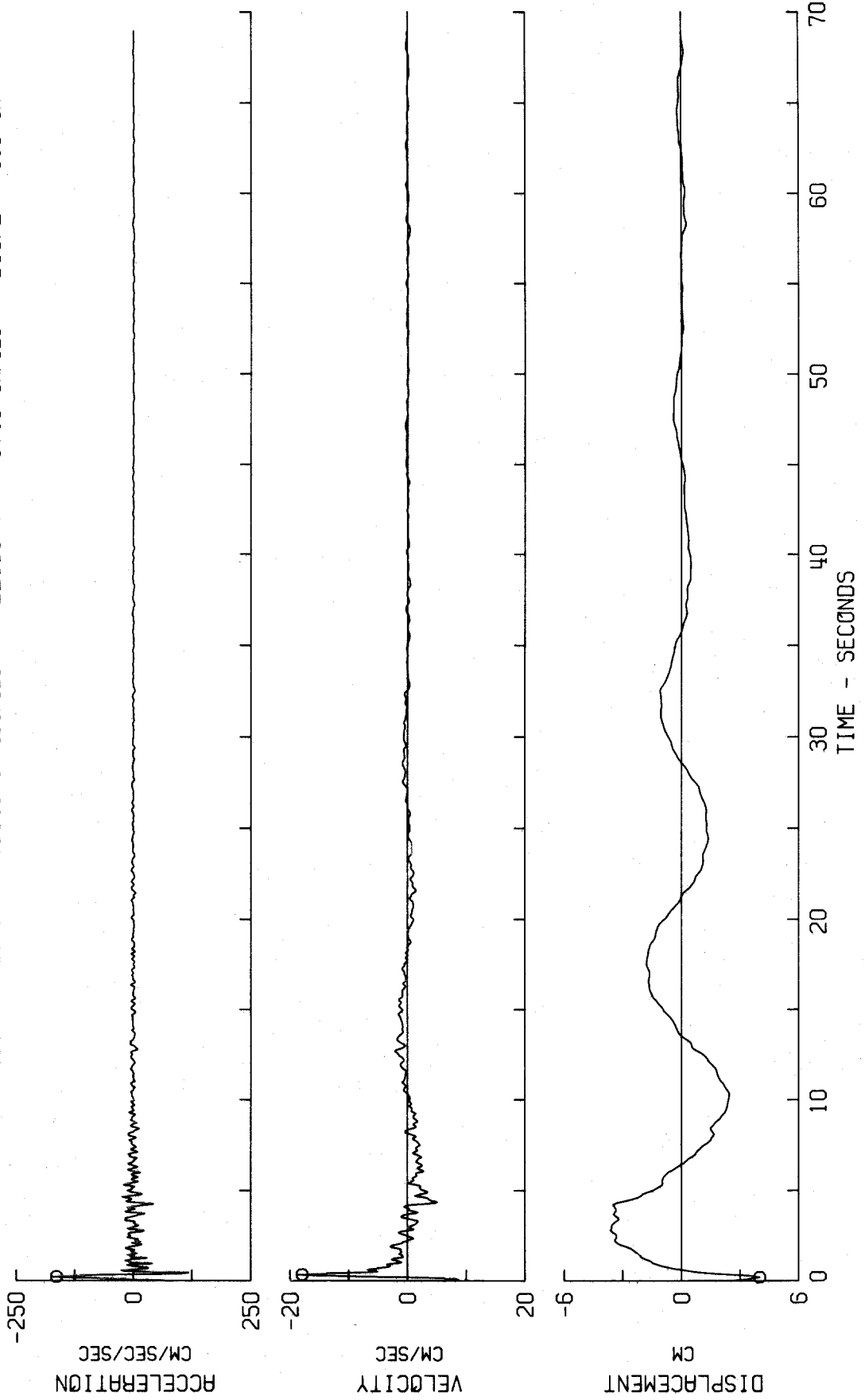
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1627 PST
IIV328 57.022.0 SOUTHERN PACIFIC BLDG., BSMT., SAN FRANCISCO, CAL. COMP N45W
⊙ PEAK VALUES : ACCEL = -9.0 CM/SEC/SEC VELOCITY = 0.9 CM/SEC DISPL = -.5 CM



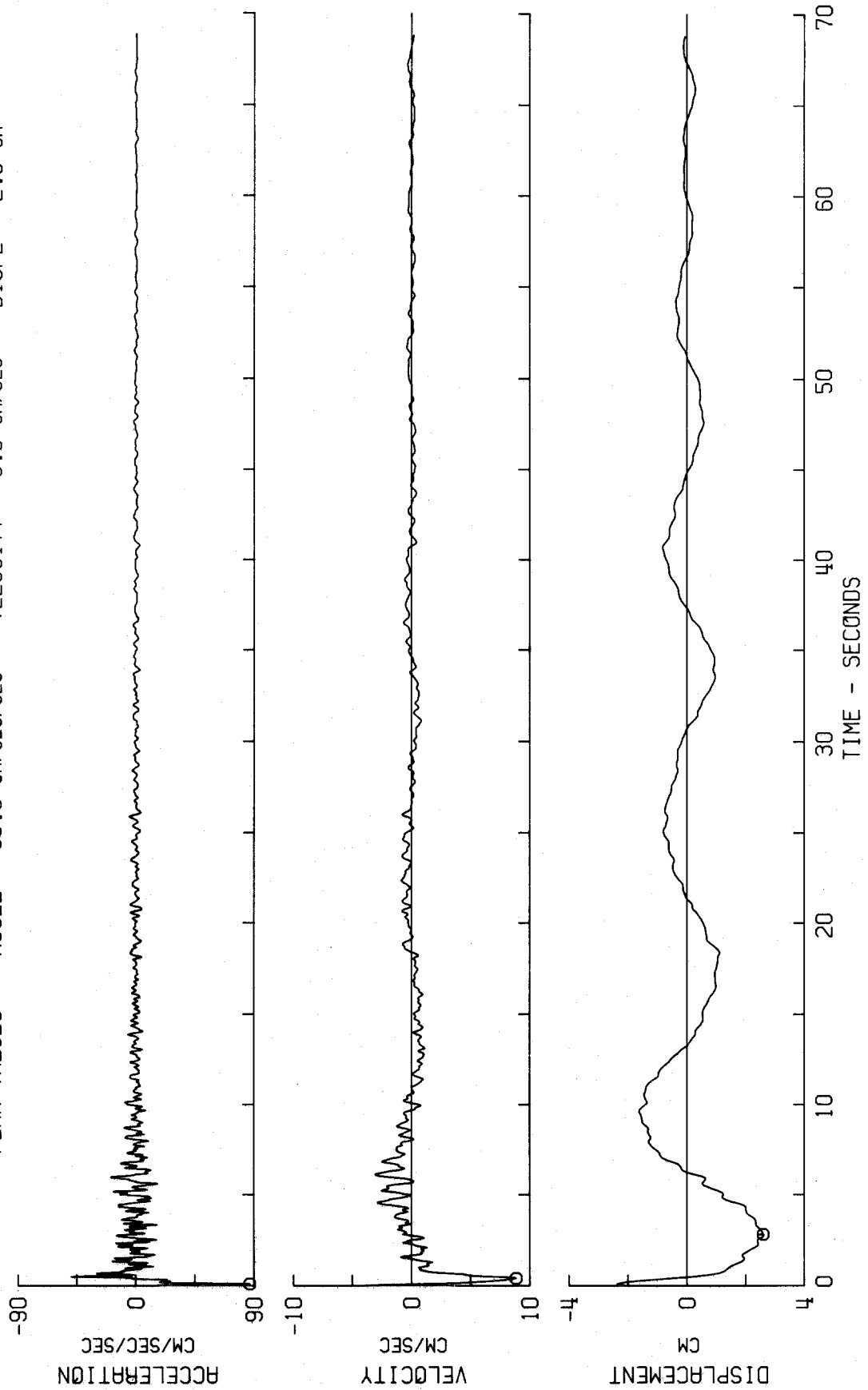
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1627 PST
IIV328 57.022.0 SOUTHERN PACIFIC BLDG., BSMT., SAN FRANCISCO, CAL. COMP UP
⊙ PEAK VALUES : ACCEL = 2.8 CM/SEC/SEC VELOCITY = -.5 CM/SEC DISPL = -.5 CM



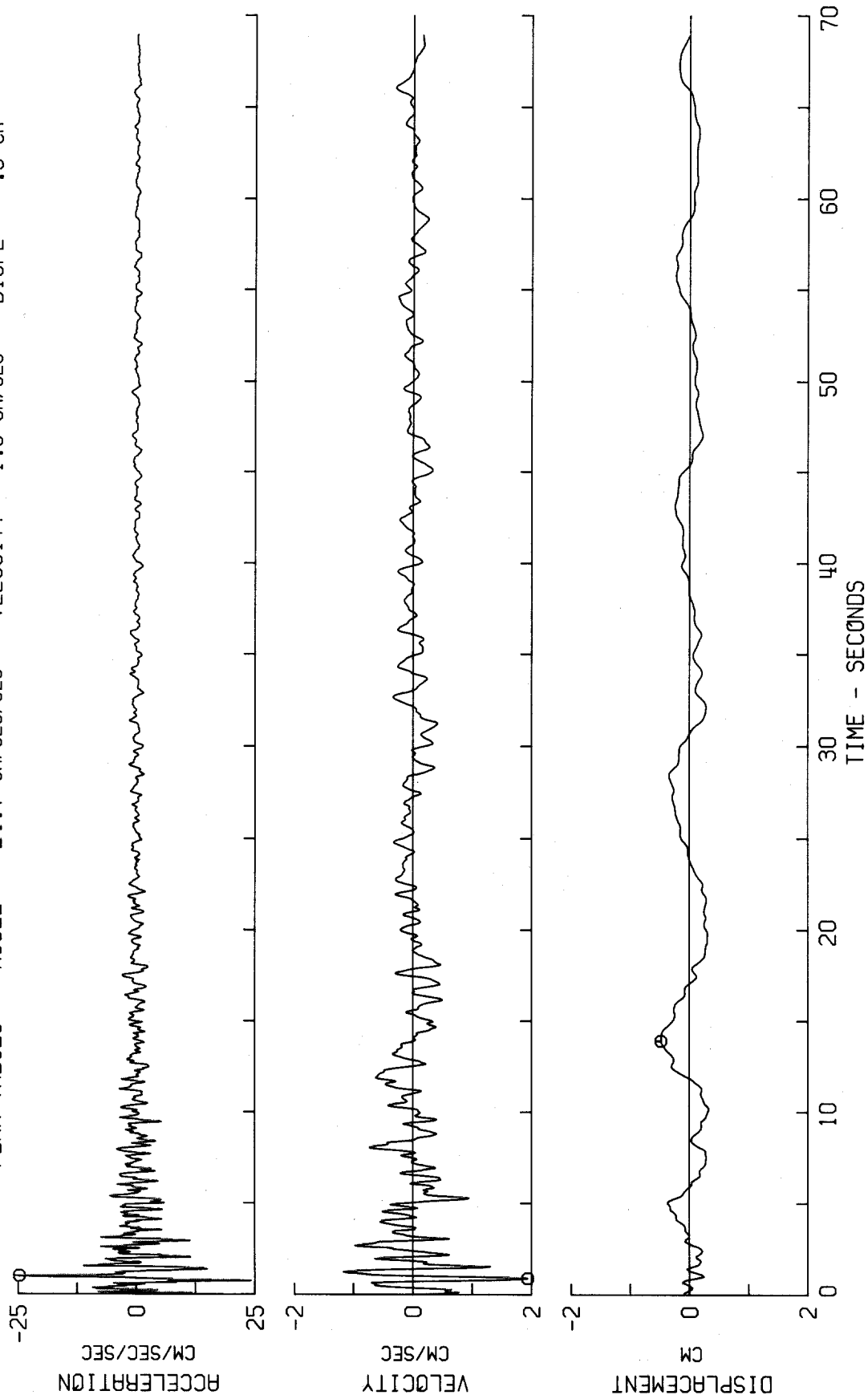
SOUTHERN CALIFORNIA EARTHQUAKE MAR 18, 1957 - 1056 PST
IIV329 57.023.0 NAVY RESEARCH & EVALUATION LAB., PORT HUENEME, CAL. COMP SOUTH
⊙ PEAK VALUES : ACCEL = -163.6 CM/SEC/SEC VELOCITY = -17.9 CM/SEC DISPL = 4.0 CM



SOUTHERN CALIFORNIA EARTHQUAKE MAR 18, 1957 - 1056 PST
IIIV329 57.023.0 NAVY RESEARCH & EVALUATION LAB., PORT HUENEME, CAL. COMP WEST
o PEAK VALUES : ACCEL = 86.9 CM/SEC/SEC VELOCITY = 8.9 CM/SEC DISPL = 2.6 CM



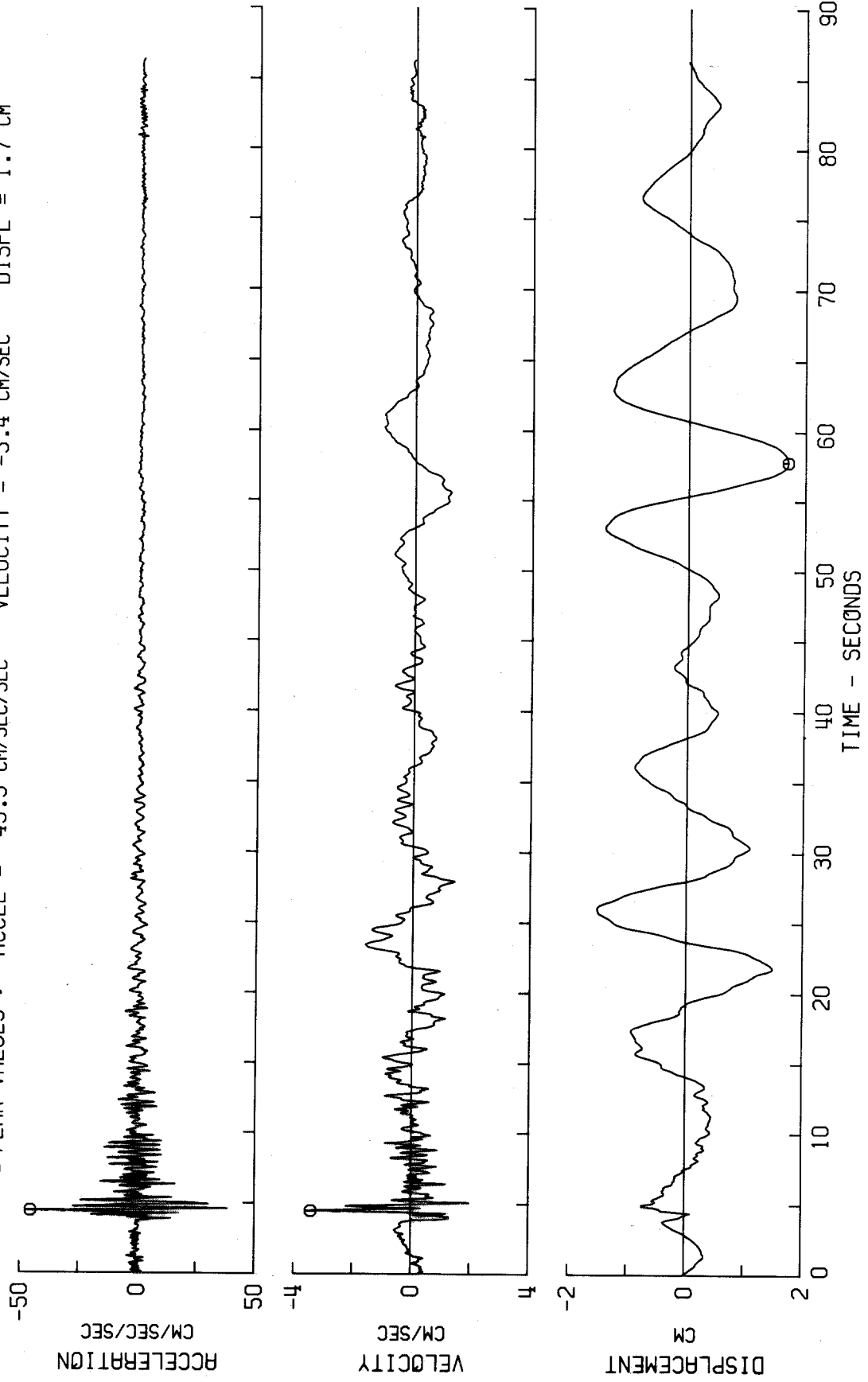
SOUTHERN CALIFORNIA EARTHQUAKE MAR 18, 1957 - 1056 PST
 IIV329 57.023.0 NAVY RESEARCH & EVALUATION LAB., PORT HUENEME, CAL. COMP UP
 ○ PEAK VALUES : ACCEL = -24.7 CM/SEC/SEC VELOCITY = 1.9 CM/SEC DISPL = -.5 CM



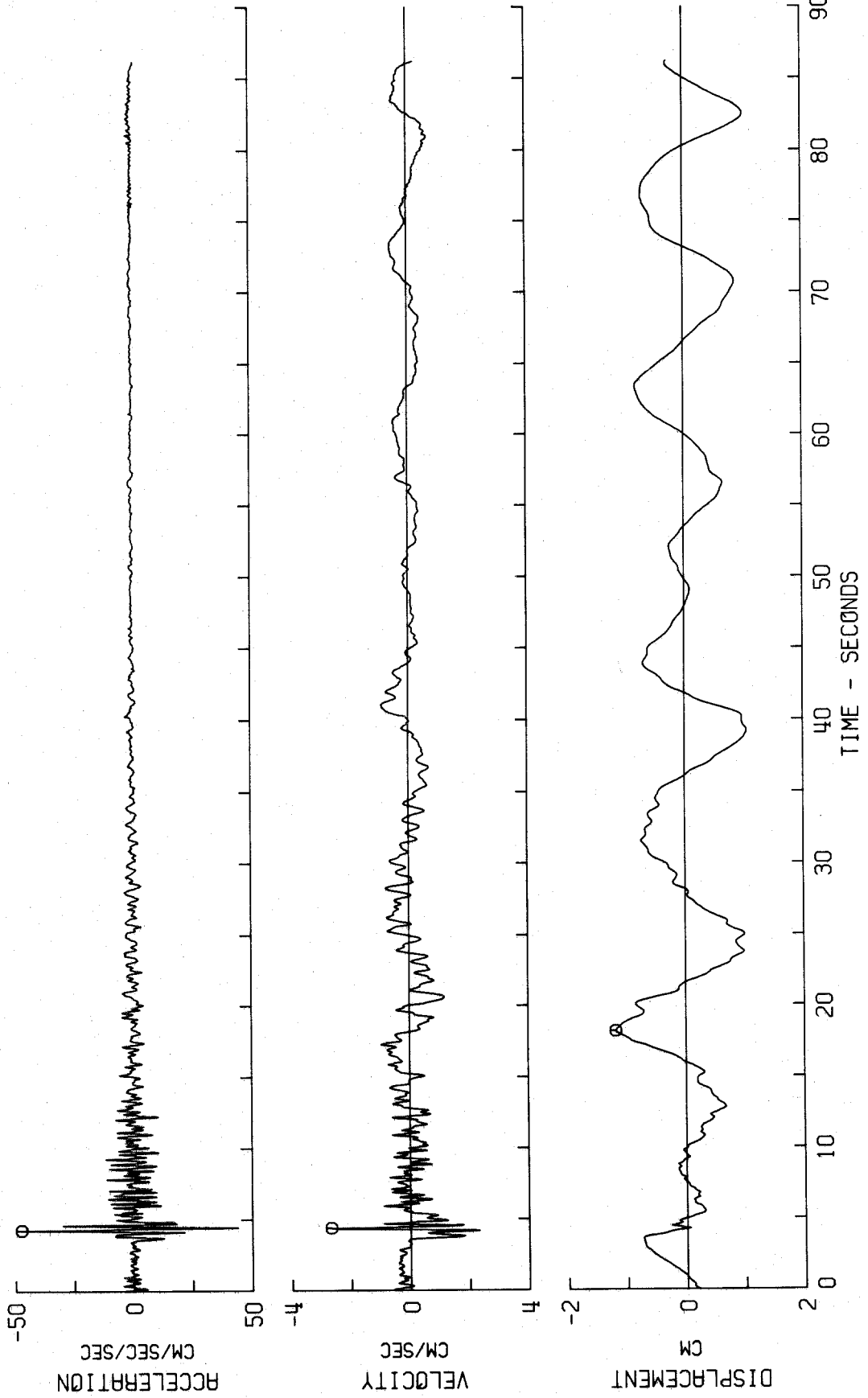
NORTHERN CALIFORNIA EARTHQUAKE SEPT 4, 1962 - 0917 PST

IIIV330 62.001.0 FEDERAL BUILDING, EUREKA, CALIFORNIA COMP N79E

o PEAK VALUES : ACCEL = -45.3 CM/SEC/SEC VELOCITY = -3.4 CM/SEC DISPL = 1.7 CM



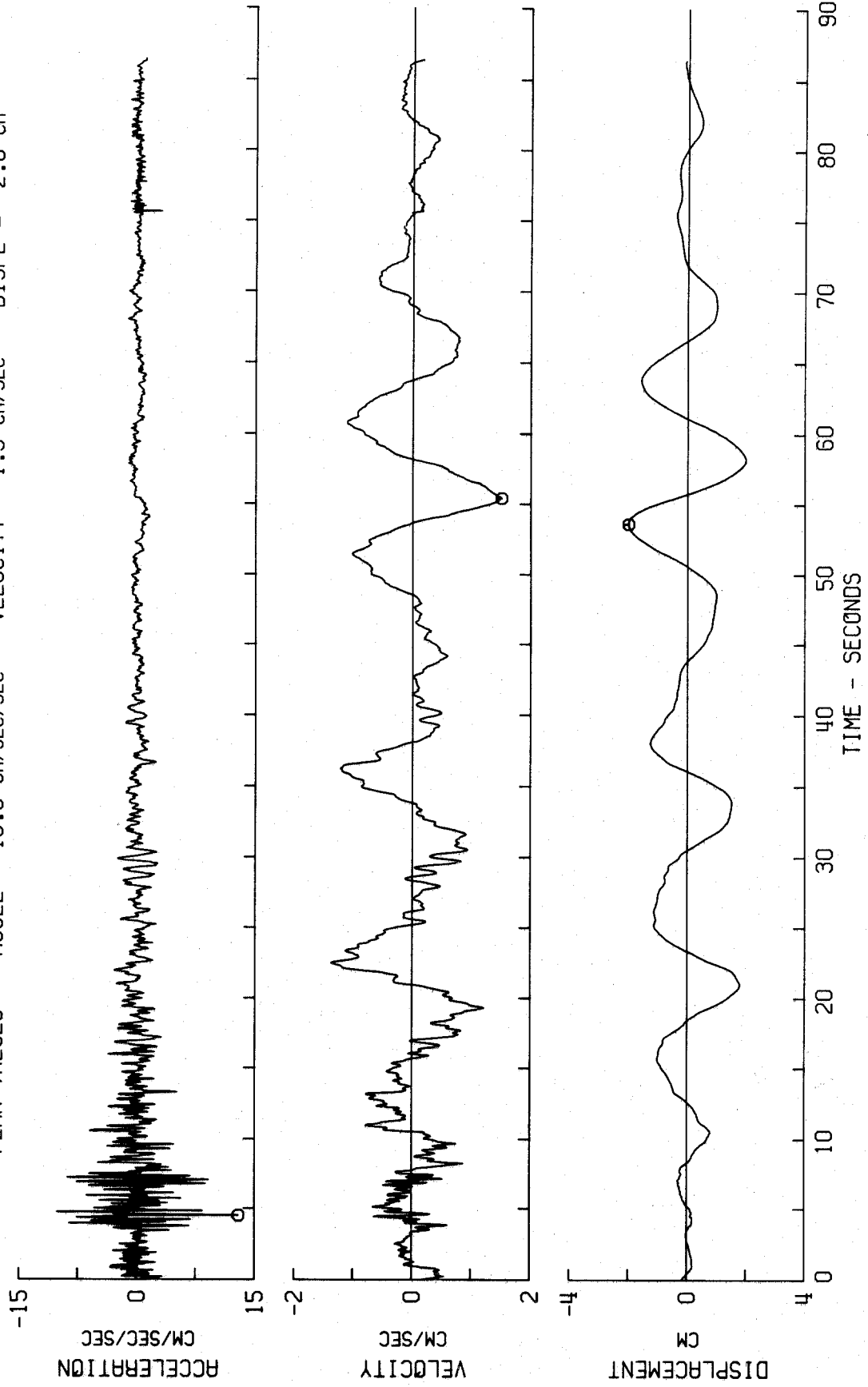
NORTHERN CALIFORNIA EARTHQUAKE SEPT 4, 1962 - 0917 PST
IIV330 62.001.0 FEDERAL BUILDING, EUREKA, CALIFORNIA COMP S11E
Ø PEAK VALUES : ACCEL = -47.3 CM/SEC/SEC VELOCITY = -2.7 CM/SEC DISPL = -1.2 CM



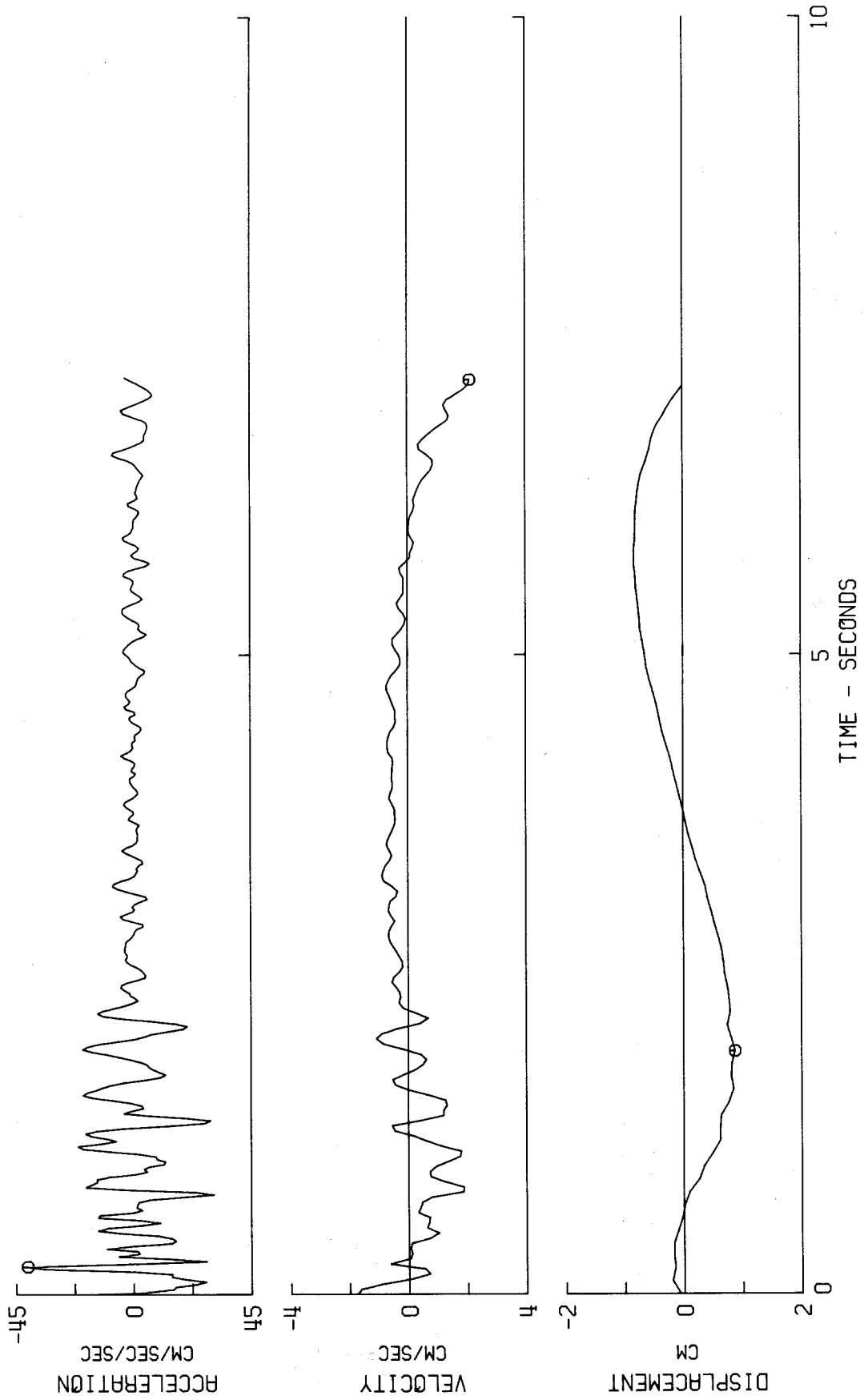
NORTHERN CALIFORNIA EARTHQUAKE SEPT 4, 1962 - 0917 PST

IIV330 62.001.0 FEDERAL BUILDING, EUREKA, CALIFORNIA COMP UP

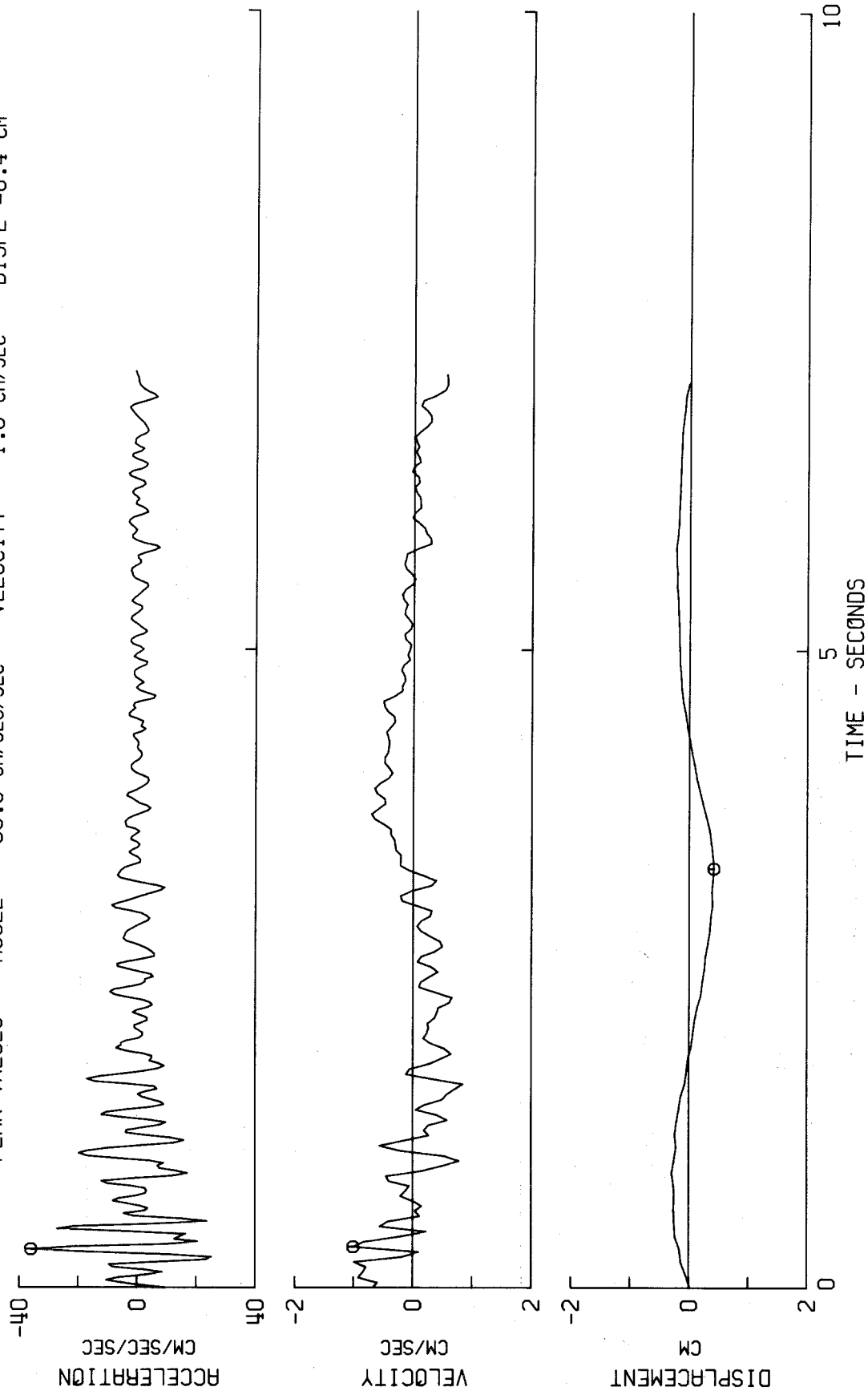
o PEAK VALUES : ACCEL = 13.0 CM/SEC/SEC VELOCITY = 1.5 CM/SEC DISPL = -2.0 CM



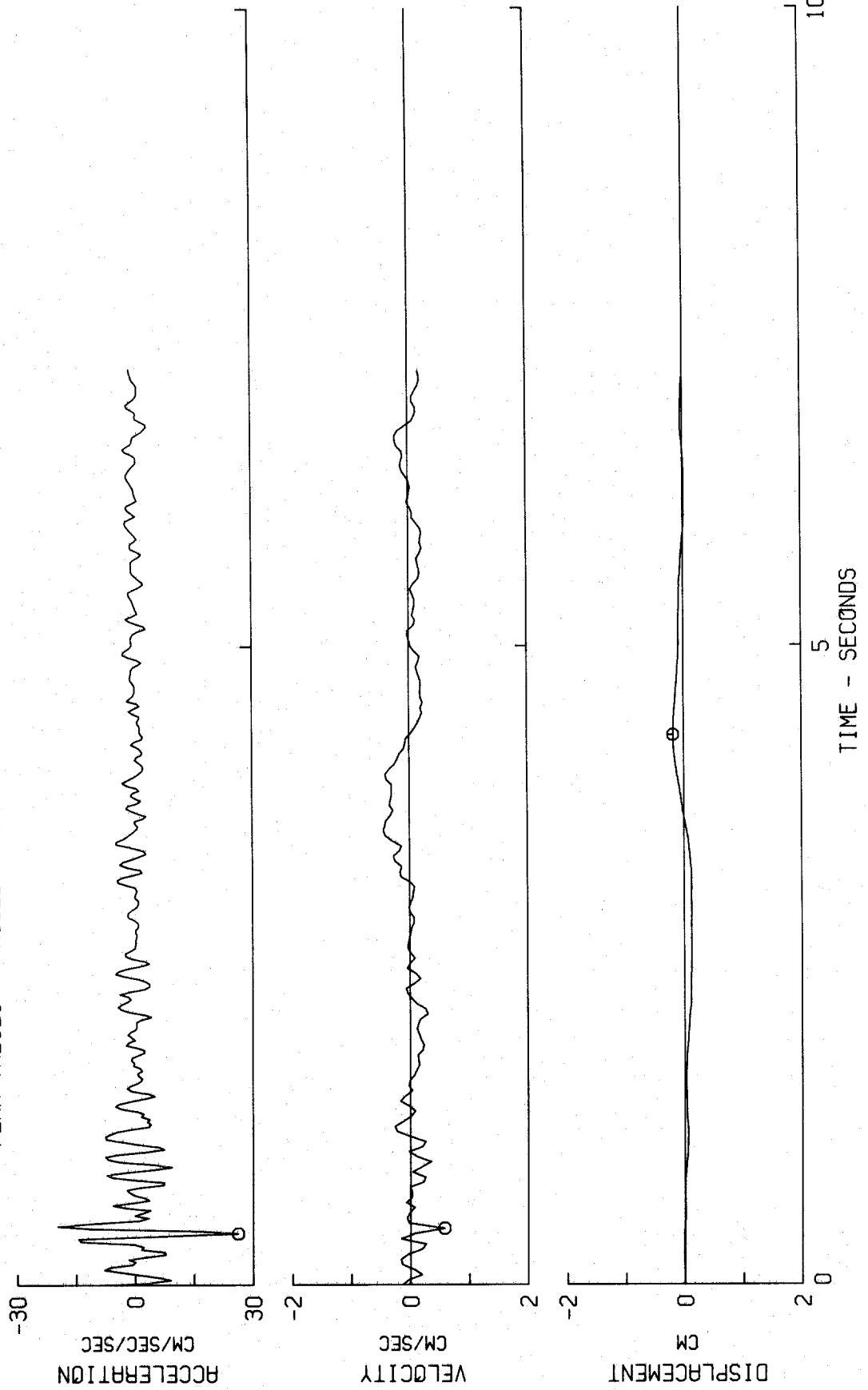
SOUTHERN CALIFORNIA EARTHQUAKE JUL 15, 1965 - 2346 PST
IIV331 65.006.0 OLD RIDGE ROUTE (CWR SITE), CASTAIC, CAL. COMP SOUTH
PEAK VALUES : ACCEL = -40.4 CM/SEC/SEC VELOCITY = 2.1 CM/SEC DISPL = 0.9 CM



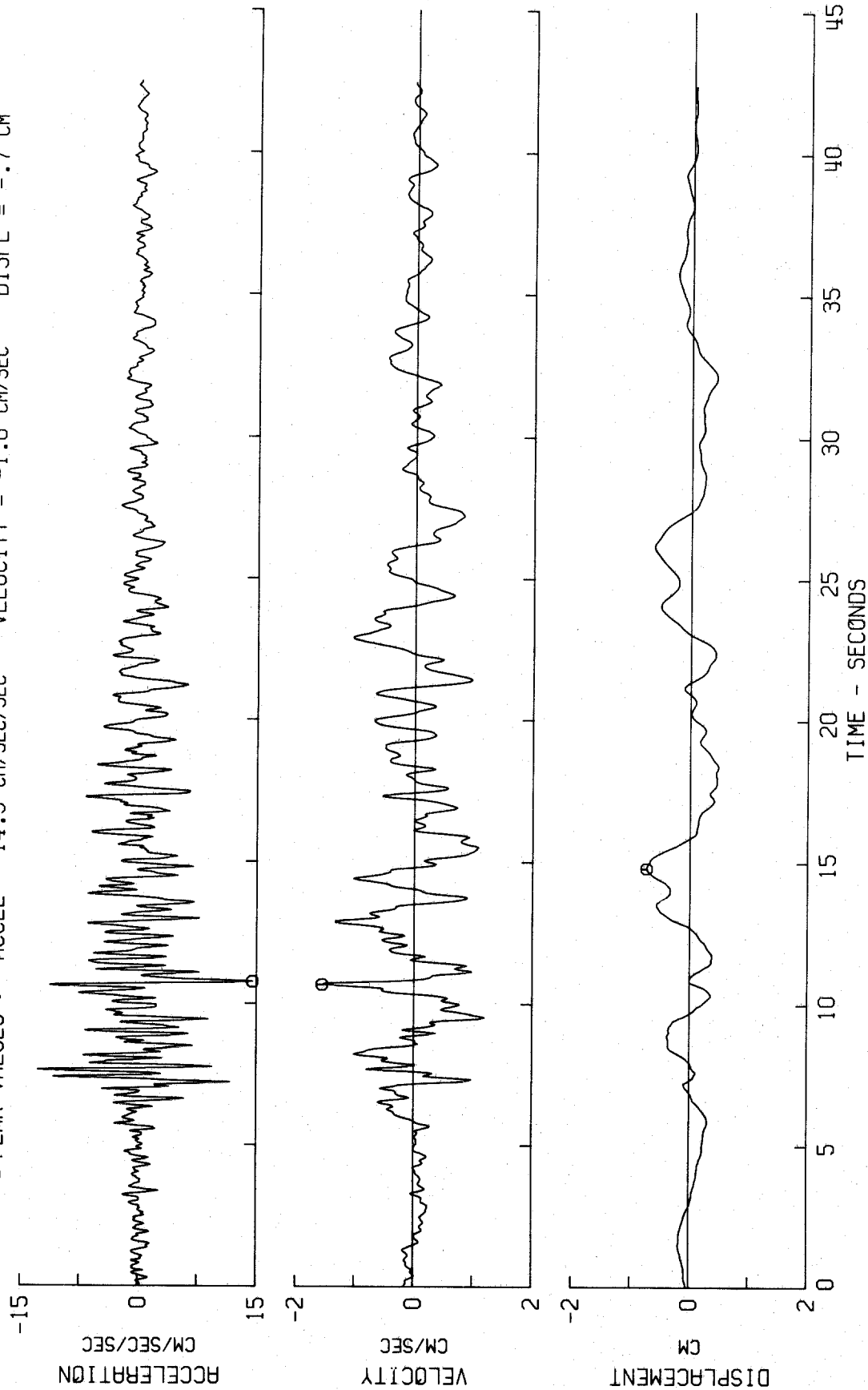
SOUTHERN CALIFORNIA EARTHQUAKE JUL 15, 1965 - 2346 PST
 IIV331 65.006.0 OLD RIDGE ROUTE (CWR SITE), CASTAIC, CAL. COMP EAST
 PEAK VALUES : ACCEL = -35.9 CM/SEC/SEC VELOCITY = -1.0 CM/SEC DISPL = 0.4 CM



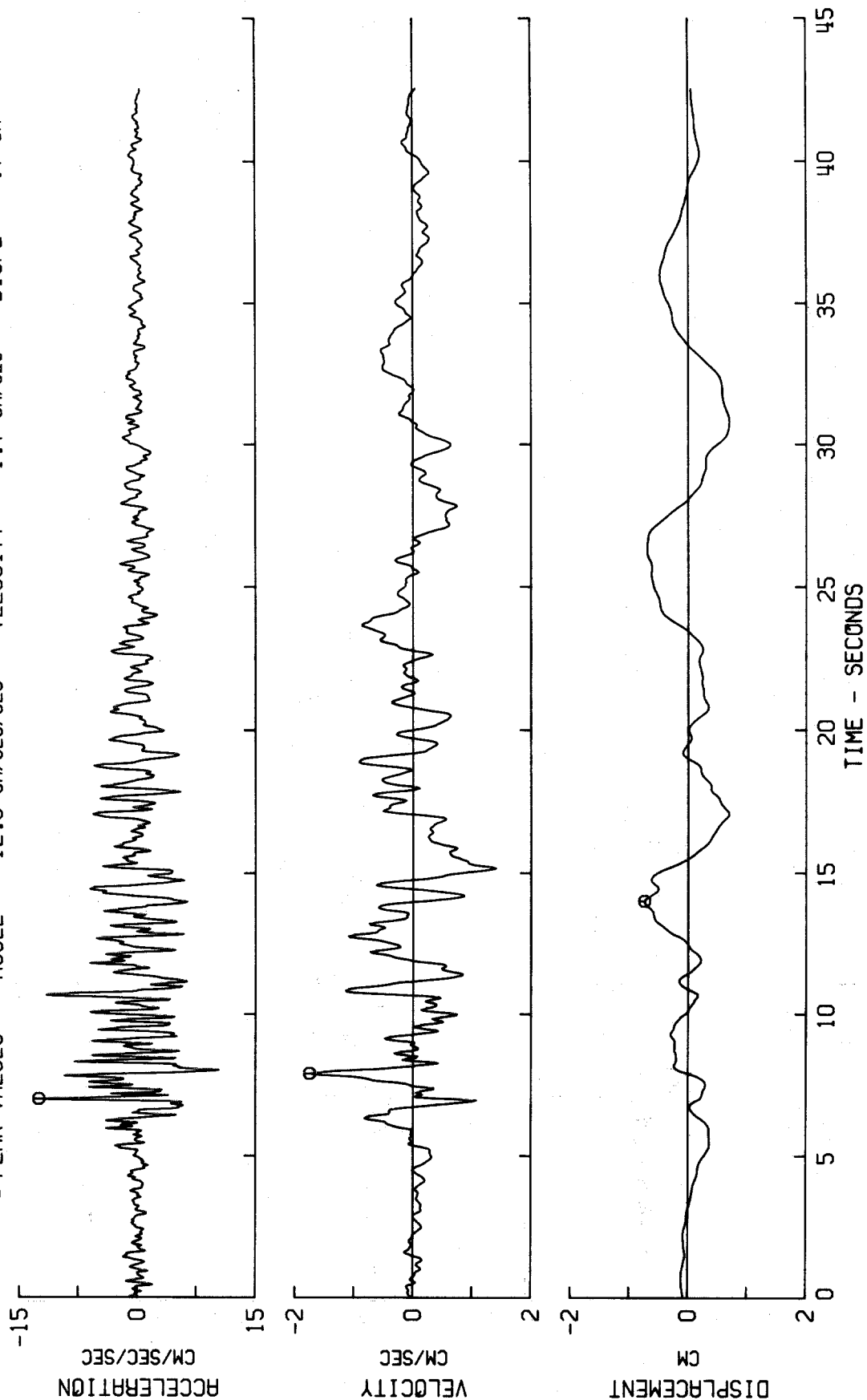
SOUTHERN CALIFORNIA EARTHQUAKE JUL 15, 1965 - 2346 PST
IIV331 65.006.0 OLD RIDGE ROUTE (CWR SITE), CASTAIC, CAL. COMP DOWN
⊙ PEAK VALUES : ACCEL = 26.3 CM/SEC/SEC VELOCITY = 0.6 CM/SEC DISPL = -.2 CM



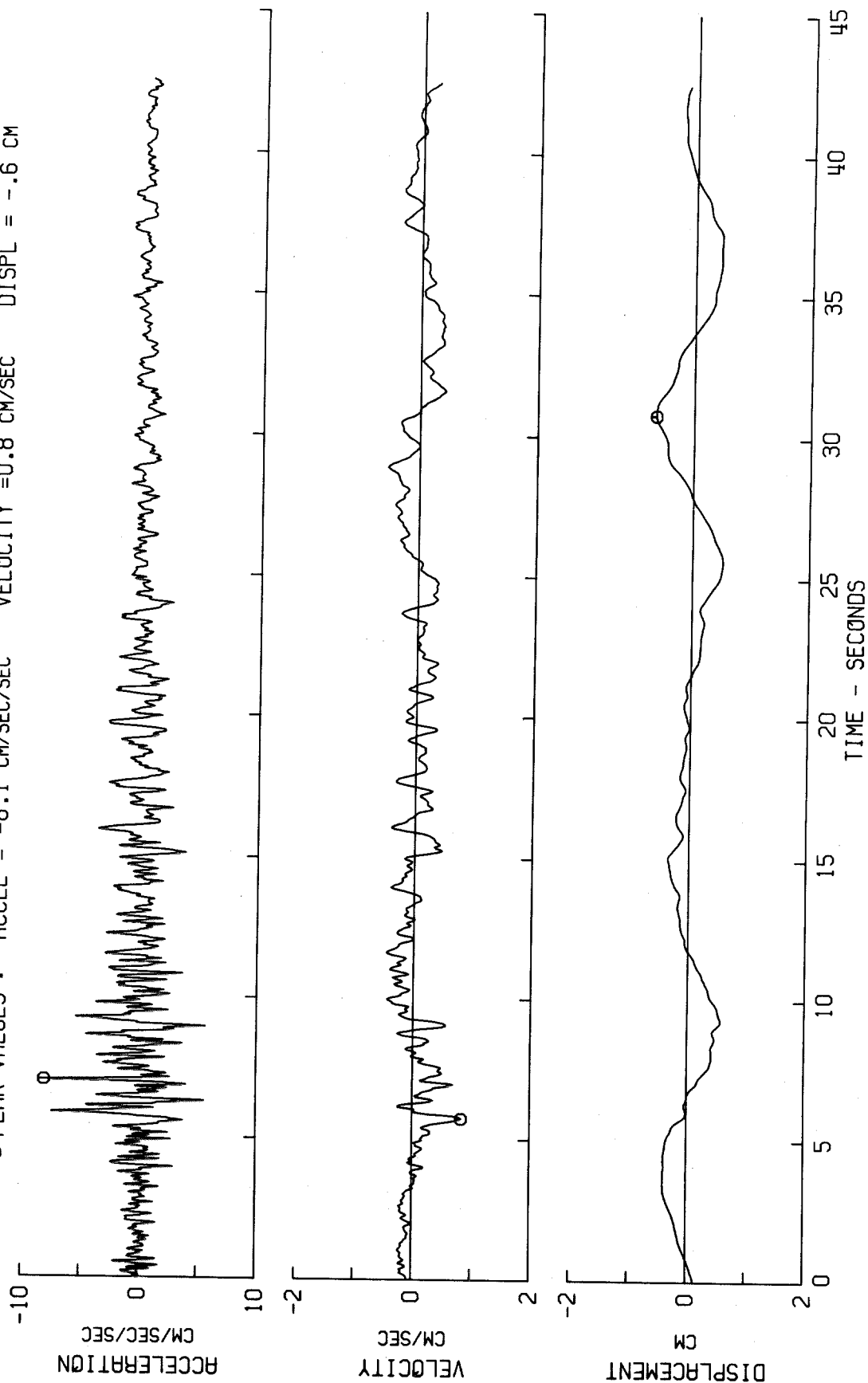
NORTHERN CALIFORNIA EARTHQUAKE SEP 12, 1966 - 0841 PST
IIV332 66.010.0 PACIFIC TEL. & TEL. BLDG., BSMT., SACRAMENTO, CAL COMP SOUTH
PEAK VALUES : ACCEL = 14.5 CM/SEC/SEC VELOCITY = -1.6 CM/SEC DISPL = -.7 CM



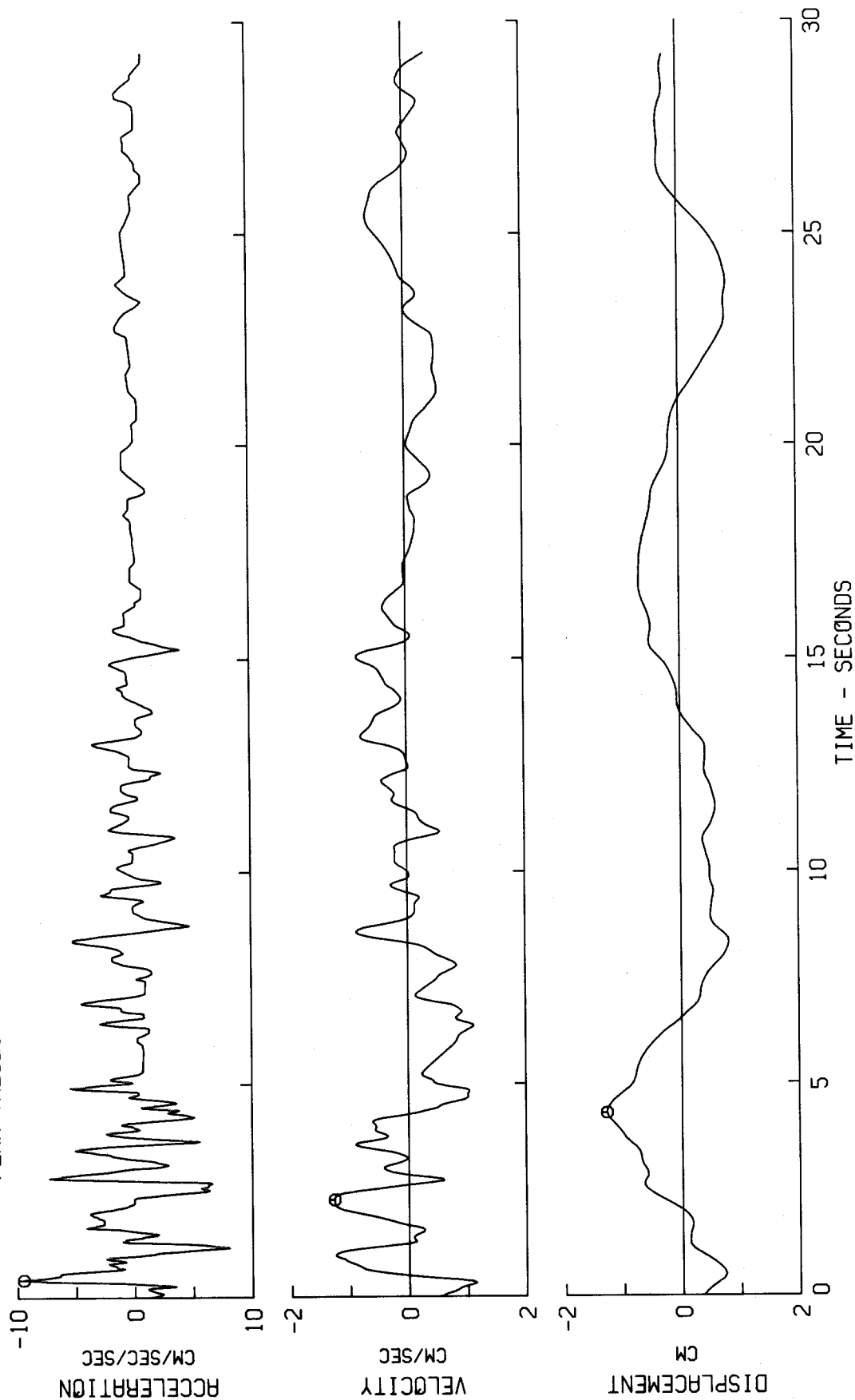
NORTHERN CALIFORNIA EARTHQUAKE SEP 12, 1966 - 0841 PST
 IIV332 66.010.0 PACIFIC TEL. & TEL. BLDG., BSMT., SACRAMENTO, CAL COMP EAST
 PEAK VALUES : ACCEL = -12.5 CM/SEC/SEC VELOCITY = -1.7 CM/SEC DISPL = -.7 CM



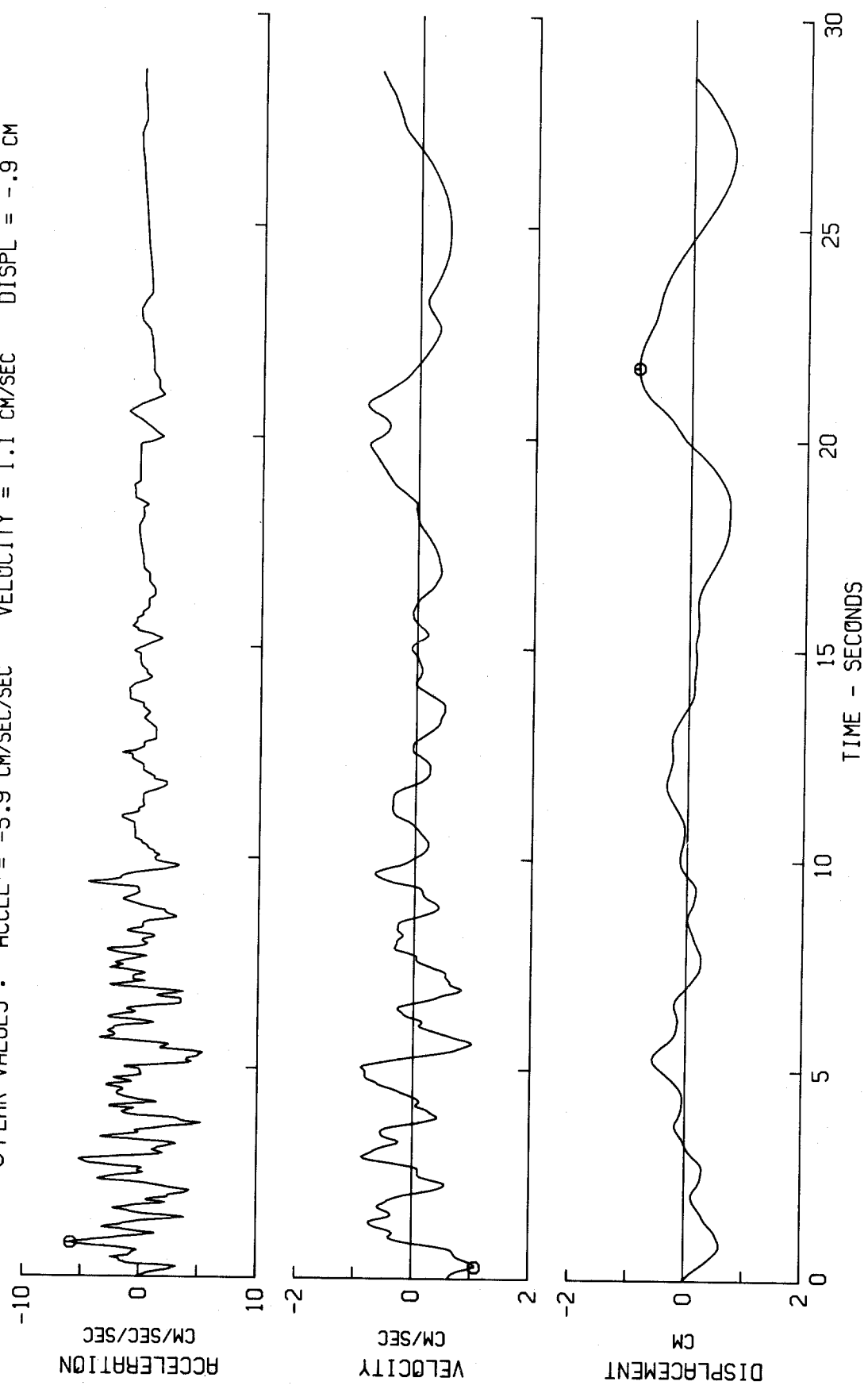
NORTHERN CALIFORNIA EARTHQUAKE SEP 12, 1966 - 0841 PST
 IIV332 66.010.0 PACIFIC TEL. & TEL. BLDG., BSMT., SACRAMENTO, CAL COMP UP
 ○ PEAK VALUES : ACCEL = -8.1 CM/SEC/SEC VELOCITY = 0.8 CM/SEC DISPL = -.6 CM



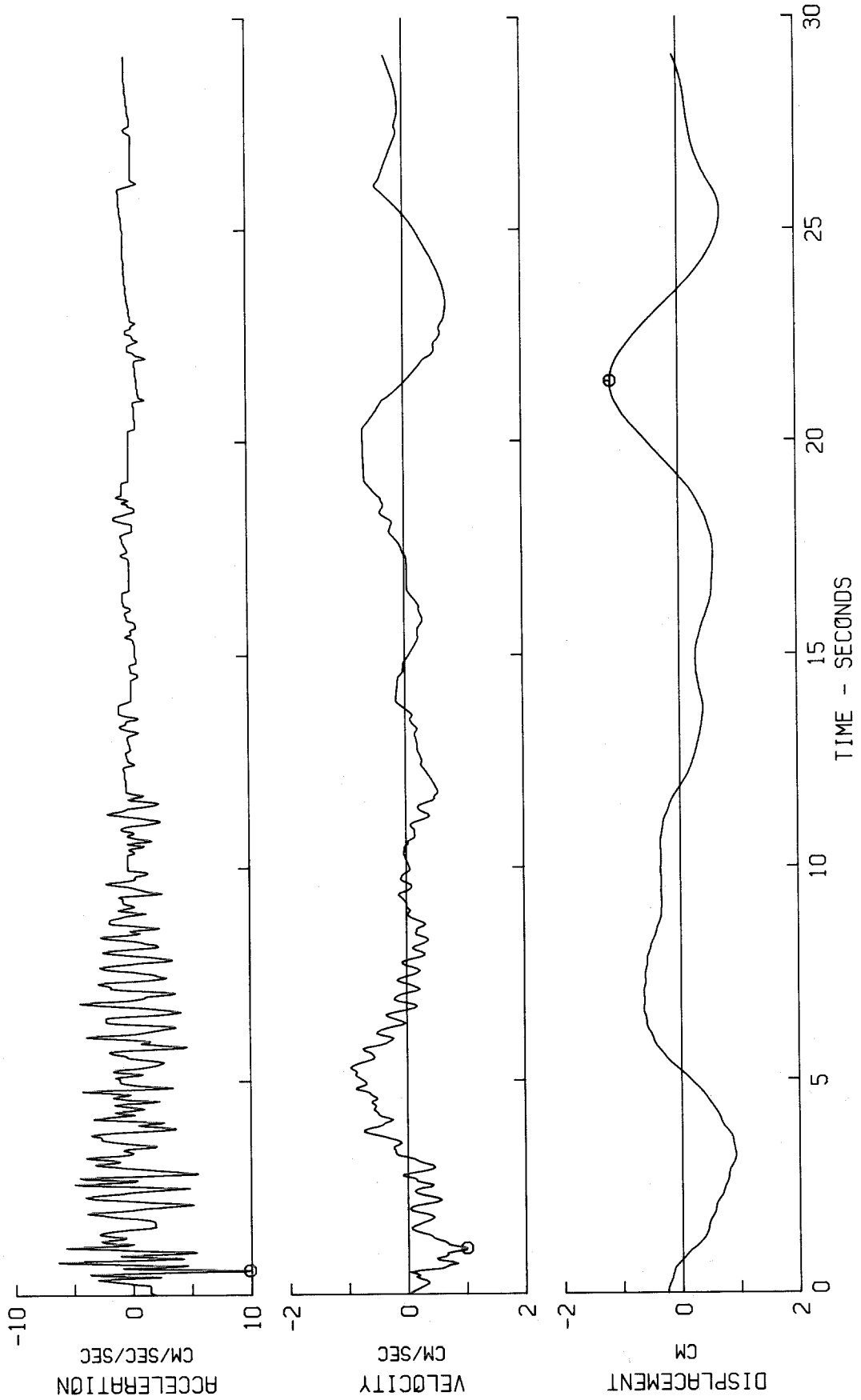
NORTHERN CALIFORNIA EARTHQUAKE DEC 18, 1967 - 0925 PST
IIV333 67.008.0 BETHLEHEM BLDG., 12TH FL., SAN FRANCISCO, CAL. COMP NORTH
PEAK VALUES : ACCEL = -9.5 CM/SEC/SEC VELOCITY = -1.3 CM/SEC DISPL = -1.3 CM



NORTHERN CALIFORNIA EARTHQUAKE DEC 18, 1967 - 0925 PST
IIV333 67.008.0 BETHLEHEM BLDG., 12TH FL., SAN FRANCISCO, CAL. COMP WEST
o PEAK VALUES : ACCEL = -5.9 CM/SEC/SEC VELOCITY = 1.1 CM/SEC DISPL = -.9 CM



NORTHERN CALIFORNIA EARTHQUAKE DEC 18, 1967 - 0925 PST
IIV333 67.008.0 BETHLEHEM BLDG., 12TH FL., SAN FRANCISCO, CAL. COMP UP
⊙ PEAK VALUES : ACCEL = 9.9 CM/SEC/SEC VELOCITY = 1.0 CM/SEC DISPL = -1.2 CM



IIV314 33.002.0 LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
STATION NO. 136 L.A. SUBWAY TERMINAL SUB-BST., LOS ANGELES, CAL.
INSTR PERIOD = 0.098 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

EPICENTER - 33 35 00N, 117 59 00W
COMP N39F 34 03 00N, 118 15 00W

PEAK VALS ACN = 62.3 CM/SEC/SEC AT 3.36 SEC VELO = -17.3 CM/SEC AT 13.32 SEC DISP = -8.2 CM AT 27.88 SEC

4944 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
INITIAL VELO = 0.15555 CM/SEC INITIAL DISP = 0.12669 CM

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94 | 95 | 96 | 98 | 103 | 111 | 147 | 192 | 244 | 279 | 260 | 243 | 213 | 152 | 109 | 102 | 101 | 100 | 69 | 37 |
| 17 | 7 | -3 | -8 | -13 | -16 | -15 | -15 | -14 | -15 | -7 | 6 | 65 | 130 | 107 | 114 | 152 | 176 | 143 | 112 |
| 30 | -34 | -76 | -112 | -144 | -171 | -196 | -205 | -215 | -228 | -244 | -258 | -282 | -294 | -291 | -290 | -289 | -301 | -309 | -331 |
| -366 | -390 | -410 | -397 | -350 | -290 | -265 | -299 | -294 | -247 | -236 | -208 | -191 | -175 | -162 | -126 | -68 | 10 | 75 | 133 |
| 175 | 210 | 231 | 257 | 224 | 197 | 149 | 114 | 86 | 90 | 139 | 176 | 226 | 251 | 190 | 156 | 130 | 108 | 87 | 69 |
| 51 | 43 | 40 | 66 | 113 | 148 | 207 | 224 | 176 | 105 | 106 | 173 | 208 | 254 | 244 | 198 | 155 | 116 | 162 | 242 |
| 241 | 276 | 247 | 205 | 53 | -92 | -296 | -326 | -295 | -347 | -292 | -280 | -303 | -343 | -313 | -271 | -216 | -185 | -212 | -188 |
| -82 | 40 | 53 | 26 | 1 | -51 | -97 | -154 | -207 | -260 | -356 | -467 | -433 | -385 | -361 | -282 | -192 | -88 | -122 | -151 |
| -114 | -87 | 4 | 151 | 280 | 439 | 577 | 574 | 623 | 602 | 605 | 587 | 536 | 477 | 454 | 400 | 293 | 124 | 167 | 139 |
| 72 | -15 | -102 | -129 | -57 | 2 | 56 | 125 | 6 | -31 | -69 | -83 | -75 | -71 | -68 | -78 | -90 | -100 | -113 | -156 |
| -291 | -321 | -399 | -294 | -190 | -90 | -35 | -40 | -79 | -120 | -170 | -214 | -258 | -227 | -236 | -196 | -102 | -105 | -170 | -211 |
| -255 | -228 | -148 | -108 | -160 | -112 | -74 | -82 | -108 | -125 | -127 | -51 | -94 | -149 | -172 | -46 | 113 | 179 | 221 | 263 |
| 363 | 480 | 400 | 266 | 280 | 362 | 418 | 482 | 491 | 459 | 433 | 352 | 180 | 108 | 26 | 24 | 98 | 143 | 213 | 319 |
| 286 | 228 | 184 | 89 | 10 | -40 | -122 | -101 | -120 | -127 | -143 | -176 | -268 | -322 | -321 | -175 | -136 | -42 | 26 | 98 |
| 93 | 109 | 152 | 191 | 210 | 223 | 209 | 105 | -105 | -172 | -357 | -254 | -194 | -110 | -158 | -106 | -102 | -117 | 5 | 130 |
| 170 | 210 | 158 | 133 | 106 | 99 | 76 | 6 | 12 | 3 | 2 | -62 | -75 | -110 | -158 | -189 | -155 | -75 | -26 | 127 |
| 212 | 55 | 37 | -24 | -59 | -169 | -216 | -245 | -176 | -104 | 3 | 80 | 120 | 153 | 126 | 66 | 40 | 2 | 84 | 98 |
| 43 | 89 | 87 | 114 | 94 | 46 | -28 | -115 | -184 | -173 | -60 | 14 | 87 | 155 | 227 | 270 | 334 | 396 | 465 | 426 |
| 372 | 308 | 213 | 51 | -38 | -109 | -64 | -41 | 0 | -62 | -94 | -124 | -161 | -219 | -255 | -307 | -326 | -306 | -281 | -266 |
| -294 | -332 | -382 | -448 | -392 | -338 | -127 | -60 | -33 | -2 | -5 | 5 | -11 | -41 | -74 | -121 | -138 | -166 | -186 | -216 |
| -189 | -163 | -127 | -105 | -42 | 104 | 322 | 488 | 546 | 445 | 406 | 310 | 251 | 216 | 236 | 304 | 292 | 278 | 262 | 240 |
| 220 | 198 | 168 | 135 | 84 | -5 | -99 | -279 | -324 | -416 | -348 | -226 | -218 | -147 | -119 | -79 | -64 | -47 | -53 | -50 |
| -55 | -54 | -46 | -31 | -17 | 49 | 75 | 89 | 111 | 132 | 154 | 201 | 281 | 296 | 316 | 249 | 226 | 246 | 249 | 240 |
| 156 | 113 | 64 | 12 | -36 | -96 | -151 | -180 | -213 | -278 | -269 | -229 | -211 | -183 | -219 | -277 | -375 | -375 | -346 | -309 |
| -218 | -154 | -100 | -59 | -20 | 13 | 54 | 129 | 197 | 255 | 304 | 412 | 320 | 228 | 90 | -80 | -184 | -275 | -268 | -271 |
| -232 | -204 | -147 | -104 | -46 | 0 | 85 | 155 | 233 | 232 | 194 | 91 | 13 | -18 | -49 | -77 | -112 | -157 | -184 | -108 |
| -63 | 3 | 85 | 28 | -22 | -48 | -36 | -1 | 25 | -14 | -68 | -151 | -185 | -214 | -224 | -199 | -181 | -152 | -100 | -48 |
| 6 | 71 | 130 | 195 | 183 | 146 | 115 | 117 | 130 | 143 | 137 | 110 | 90 | 68 | 104 | 143 | 181 | 227 | 238 | 206 |
| 185 | 139 | 65 | 20 | -50 | -124 | -177 | -143 | -58 | -17 | 37 | 94 | 160 | 199 | 251 | 237 | 179 | 149 | 112 | 95 |
| 103 | 108 | 105 | 96 | 95 | 111 | 125 | 142 | 127 | 99 | 70 | -18 | -97 | -166 | -235 | -295 | -339 | -365 | -396 | -379 |
| -353 | -326 | -281 | -236 | -178 | -123 | -74 | -20 | 45 | 125 | 175 | 223 | 268 | 253 | 224 | 199 | 164 | 133 | 73 | 19 |
| -49 | -120 | -211 | -317 | -427 | -453 | -467 | -466 | -422 | -371 | -300 | -227 | -209 | -175 | -183 | -189 | -201 | -191 | -175 | -161 |
| -184 | -207 | -220 | -232 | -248 | -239 | -210 | -199 | -183 | -167 | -164 | -174 | -180 | -177 | -171 | -164 | -177 | -211 | -231 | -255 |
| -208 | -176 | -151 | -123 | -83 | -36 | 11 | 67 | 114 | 139 | 165 | 189 | 219 | 255 | 288 | 325 | 360 | 408 | 478 | 529 |
| 579 | 615 | 585 | 565 | 518 | 440 | 384 | 312 | 206 | 158 | 120 | 111 | 105 | 123 | 130 | 127 | 118 | 113 | 103 | 99 |
| 103 | 107 | 112 | 117 | 123 | 125 | 119 | 116 | 110 | 107 | 88 | 40 | 0 | -29 | -50 | -50 | -27 | -11 | 16 | 37 |
| 54 | 69 | 87 | 87 | 58 | 33 | -7 | -45 | -71 | -99 | -126 | -139 | -108 | -84 | -38 | 17 | 66 | 112 | 159 | 184 |
| 209 | 232 | 255 | 262 | 266 | 271 | 271 | 267 | 258 | 256 | 210 | 142 | 75 | 22 | -9 | -53 | -123 | -166 | -182 | -199 |
| -205 | -216 | -224 | -233 | -243 | -244 | -230 | -221 | -197 | -171 | -152 | -156 | -165 | -172 | -171 | -169 | -188 | -210 | -232 | -261 |
| -294 | -310 | -329 | -340 | -321 | -307 | -279 | -249 | -238 | -219 | -201 | -159 | -111 | -62 | -38 | -17 | 2 | -1 | -5 | -10 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| -18 | -18 | -10 | -2 | 6 | 17 | 37 | 57 | 70 | 84 | 97 | 111 | 124 | 134 | 126 | 121 | 112 | 103 | 87 | 70 |
| 53 | 35 | 19 | 0 | -4 | 28 | 87 | 155 | 162 | 191 | 204 | 226 | 245 | 264 | 266 | 272 | 271 | 271 | 270 | 270 |
| 263 | 257 | 239 | 176 | 137 | 89 | 39 | -10 | -31 | -45 | -40 | -39 | -36 | -48 | -50 | -45 | -39 | -42 | -49 | -51 |
| -31 | -8 | 25 | 52 | 79 | 98 | 110 | 107 | 99 | 68 | 47 | 9 | -33 | -89 | -162 | -259 | -301 | -342 | -362 | -379 |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -374 | -358 | -328 | -300 | -258 | -224 | -185 | -125 | -89 | -35 | 33 | 60 | 117 | 175 | 270 | 324 | 335 | 362 | 375 | 395 |
| 423 | 435 | 431 | 386 | 314 | 278 | 227 | 189 | 149 | 115 | 75 | 38 | 11 | -14 | -35 | -42 | -50 | -55 | -51 | -47 |
| -41 | -46 | -56 | -65 | -78 | -91 | -104 | -123 | -142 | -150 | -160 | -163 | -158 | -154 | -148 | -150 | -161 | -170 | -180 | -195 |
| -216 | -235 | -266 | -297 | -339 | -358 | -379 | -379 | -376 | -370 | -353 | -299 | -252 | -198 | -150 | -66 | 64 | 125 | 197 | 214 |
| 237 | 249 | 247 | 244 | 238 | 217 | 202 | 173 | 143 | 122 | 115 | 118 | 122 | 147 | 171 | 202 | 230 | 244 | 258 | 269 |
| 279 | 289 | 286 | 279 | 273 | 266 | 256 | 233 | 214 | 185 | 175 | 176 | 172 | 174 | 161 | 140 | 122 | 103 | 86 | 72 |
| 59 | 45 | 35 | 29 | 27 | 8 | -24 | -55 | -83 | -99 | -117 | -144 | -180 | -203 | -231 | -245 | -255 | -267 | -267 | -253 |
| -244 | -214 | -178 | -156 | -134 | -102 | -53 | -30 | -15 | 5 | -2 | -23 | -41 | -60 | -75 | -93 | -109 | -122 | -132 | -143 |
| -152 | -152 | -149 | -143 | -136 | -126 | -117 | -107 | -99 | -92 | -85 | -78 | -70 | -59 | -48 | -38 | -30 | -22 | -22 | -21 |
| -19 | -22 | -29 | -36 | -44 | -58 | -78 | -89 | -100 | -109 | -120 | -124 | -123 | -123 | -122 | -121 | -112 | -105 | -95 | -86 |
| -76 | -76 | -79 | -81 | -85 | -88 | -83 | -78 | -70 | -60 | -50 | -41 | -41 | -41 | -41 | -42 | -40 | -34 | -30 | -19 |
| -6 | 7 | 18 | 31 | 31 | 28 | 24 | 20 | 14 | 9 | 4 | -1 | -4 | -6 | -7 | 11 | 32 | 54 | 84 | 106 |
| 112 | 120 | 125 | 131 | 137 | 147 | 155 | 164 | 169 | 173 | 176 | 166 | 156 | 146 | 132 | 118 | 103 | 89 | 74 | 64 |
| 54 | 55 | 70 | 81 | 93 | 104 | 116 | 116 | 117 | 117 | 117 | 117 | 117 | 117 | 121 | 127 | 132 | 140 | 150 | 156 |
| 148 | 142 | 132 | 115 | 98 | 81 | 63 | 45 | 29 | 17 | 5 | -8 | -24 | -39 | -55 | -72 | -87 | -103 | -109 | -87 |
| -68 | -45 | -9 | 9 | 20 | 35 | 42 | 43 | 43 | 43 | 42 | 39 | 13 | -2 | -17 | -32 | -40 | -47 | -55 | -51 |
| -38 | -30 | -17 | -9 | -2 | 5 | 12 | 18 | 24 | 31 | 54 | 68 | 71 | 78 | 81 | 86 | 87 | 84 | 82 | 79 |
| 77 | 73 | 71 | 67 | 63 | 58 | 53 | 45 | 38 | 30 | 22 | -4 | -12 | -14 | -18 | -19 | -21 | -22 | -25 | -28 |
| -30 | -33 | -36 | -39 | -43 | -46 | -50 | -53 | -57 | -53 | -52 | -48 | -44 | -19 | 0 | 9 | 22 | 26 | 16 | 8 |
| -2 | -16 | -36 | -55 | -72 | -85 | -99 | -111 | -124 | -135 | -147 | -156 | -154 | -153 | -151 | -148 | -149 | -153 | -157 | -161 |
| -165 | -169 | -183 | -204 | -221 | -241 | -258 | -276 | -281 | -270 | -262 | -250 | -238 | -221 | -206 | -189 | -168 | -145 | -124 | -100 |
| -84 | -76 | -66 | -58 | -49 | -41 | -33 | -25 | -17 | -8 | 1 | 9 | 18 | 26 | 35 | 43 | 51 | 60 | 64 | 56 |
| 50 | 42 | 32 | 20 | 8 | -4 | -16 | -28 | -39 | -48 | -58 | -63 | -66 | -70 | -72 | -66 | -60 | -51 | -39 | -27 |
| -13 | 3 | 14 | 20 | 27 | 34 | 35 | 30 | 25 | 25 | 33 | 39 | 47 | 45 | 43 | 42 | 51 | 60 | 70 | 80 |
| 91 | 101 | 110 | 119 | 127 | 135 | 133 | 129 | 125 | 120 | 115 | 106 | 95 | 88 | 94 | 99 | 106 | 112 | 118 | 122 |
| 126 | 130 | 137 | 151 | 159 | 152 | 146 | 137 | 126 | 116 | 105 | 94 | 84 | 76 | 66 | 65 | 68 | 69 | 72 | 75 |
| 79 | 82 | 85 | 90 | 96 | 101 | 106 | 113 | 126 | 134 | 131 | 130 | 127 | 125 | 122 | 124 | 127 | 130 | 134 | 136 |
| 139 | 142 | 145 | 141 | 134 | 129 | 121 | 115 | 105 | 90 | 77 | 62 | 47 | 33 | 20 | 6 | -7 | -31 | -55 | -80 |
| -108 | -129 | -144 | -156 | -148 | -142 | -134 | -127 | -130 | -131 | -134 | -137 | -141 | -138 | -125 | -113 | -102 | -92 | -83 | -71 |
| -54 | -39 | -38 | -41 | -43 | -48 | -42 | -31 | -22 | -10 | 1 | 12 | 20 | 25 | 30 | 35 | 39 | 40 | 42 | 43 |
| 59 | 46 | 53 | 61 | 70 | 73 | 75 | 77 | 78 | 80 | 81 | 83 | 84 | 84 | 83 | 82 | 81 | 79 | 78 | 69 |
| 59 | 49 | 43 | 36 | 21 | 7 | -10 | -27 | -43 | -42 | -41 | -46 | -58 | -70 | -82 | -87 | -94 | -99 | -105 | -105 |
| -103 | -101 | -99 | -97 | -94 | -88 | -80 | -74 | -75 | -78 | -81 | -84 | -87 | -88 | -79 | -71 | -63 | -63 | -63 | -64 |
| -66 | -67 | -65 | -61 | -58 | -54 | -50 | -46 | -41 | -37 | -33 | -37 | -41 | -46 | -51 | -55 | -57 | -60 | -63 | -66 |
| -69 | -73 | -77 | -81 | -85 | -89 | -90 | -87 | -85 | -82 | -78 | -74 | -70 | -66 | -61 | -54 | -54 | -42 | -36 | -31 |
| -25 | -19 | -13 | -6 | 1 | 7 | 15 | 24 | 32 | 26 | 19 | 11 | 1 | -10 | -20 | -29 | -25 | -20 | -14 | -3 |
| 10 | 21 | 28 | 34 | 40 | 34 | 30 | 25 | 21 | 16 | 18 | 22 | 25 | 28 | 31 | 33 | 40 | 48 | 55 | 64 |
| 72 | 80 | 87 | 93 | 97 | 102 | 106 | 108 | 109 | 112 | 108 | 101 | 91 | 79 | 63 | 44 | 32 | 18 | 2 | -7 |
| -16 | -24 | -33 | -48 | -55 | -53 | -53 | -52 | -56 | -59 | -64 | -65 | -62 | -59 | -55 | -54 | -57 | -59 | -63 | -62 |
| -61 | -60 | -55 | -46 | -38 | -24 | -8 | 8 | 23 | 36 | 45 | 55 | 62 | 65 | 69 | 67 | 53 | 41 | 28 | 16 |
| 4 | -1 | -7 | -12 | -17 | -12 | -8 | 0 | 13 | 24 | 37 | 49 | 61 | 68 | 75 | 81 | 87 | 90 | 92 | 95 |
| 97 | 95 | 91 | 88 | 85 | 79 | 73 | 66 | 59 | 52 | 46 | 41 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 31 |
| 30 | 30 | 29 | 28 | 25 | 21 | 17 | 12 | 6 | 1 | -4 | -6 | -4 | -3 | -2 | 0 | 1 | -2 | -5 | -9 |
| -12 | -14 | -17 | -19 | -22 | -23 | -21 | -20 | -19 | -20 | -22 | -23 | -25 | -27 | -26 | -24 | -22 | -19 | -17 | -14 |
| -10 | -5 | -1 | 4 | 8 | 12 | 11 | 8 | 5 | 1 | -3 | -7 | -11 | -16 | -20 | -25 | -30 | -36 | -41 | -46 |
| -50 | -50 | -50 | -50 | -48 | -45 | -43 | -40 | -37 | -34 | -31 | -28 | -24 | -21 | -20 | -25 | -29 | -34 | -35 | -38 |
| -39 | -41 | -42 | -43 | -44 | -46 | -44 | -41 | -37 | -34 | -30 | -26 | -22 | -17 | -12 | -7 | -1 | -2 | -6 | -8 |
| -7 | -4 | -1 | 2 | 5 | 6 | -2 | -9 | -17 | -23 | -29 | -35 | -42 | -45 | -43 | -42 | -40 | -38 | -36 | -34 |
| -31 | -30 | -28 | -26 | -25 | -23 | -19 | -15 | -11 | -7 | -2 | 4 | 11 | 18 | 25 | 30 | 36 | 41 | 47 | 58 |
| 73 | 77 | 77 | 78 | 78 | 72 | 60 | 51 | 39 | 26 | 12 | 0 | -8 | -17 | -25 | -29 | -31 | -34 | -36 | -39 |
| -34 | -29 | -23 | -14 | -5 | 4 | 14 | 20 | 21 | 23 | 24 | 22 | 17 | 13 | 8 | 4 | -1 | -6 | -11 | -14 |
| -8 | -3 | 3 | 9 | 16 | 23 | 30 | 39 | 47 | 55 | 60 | 66 | 71 | 76 | 76 | 69 | 62 | 54 | 49 | 45 |
| 42 | 38 | 35 | 32 | 29 | 25 | 22 | 18 | 13 | 8 | 4 | 0 | -4 | -7 | -11 | -14 | -11 | -8 | -5 | -1 |
| 3 | 8 | 12 | 17 | 21 | 22 | 24 | 25 | 26 | 27 | 27 | 25 | 23 | 20 | 17 | 15 | 12 | 8 | 5 | 1 |
| -2 | -5 | -7 | -10 | -12 | -15 | -17 | -19 | -21 | -22 | -24 | -25 | -27 | -28 | -30 | -31 | -30 | -30 | -29 | -29 |

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -35 | -35 | -34 | -34 | -34 | -33 | -33 | -33 | -33 | -33 | -32 | -31 | -30 | -28 | -27 | -25 | -24 | -22 | -21 | -20 | -18 |
| -15 | -12 | -8 | -5 | -1 | 2 | 7 | 11 | 15 | 20 | 29 | 27 | 28 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| 39 | 38 | 37 | 36 | 35 | 34 | 32 | 31 | 30 | 29 | 2 | 0 | -2 | -4 | -6 | -8 | -10 | -12 | -14 | -15 | -16 |
| 16 | 15 | 13 | 11 | 10 | 8 | 7 | 5 | 4 | 2 | -9 | -6 | -3 | 0 | 4 | 9 | 15 | 21 | 27 | 30 | 32 |
| -17 | -18 | -19 | -20 | -21 | -19 | -17 | -14 | -12 | -9 | -22 | -22 | -21 | 20 | 19 | 19 | 18 | 17 | 15 | 13 | 10 |
| 34 | 35 | 33 | 32 | 30 | -4 | 29 | 25 | 24 | 22 | -18 | -22 | -22 | -23 | -23 | -23 | -24 | -24 | -24 | -25 | -25 |
| 8 | 6 | 4 | 2 | -1 | -15 | -8 | -11 | -15 | -18 | | | | | | | | | | | |
| -23 | -17 | -20 | -17 | -17 | -11 | -13 | -16 | -16 | -12 | -15 | -13 | -13 | -14 | -15 | -15 | -16 | -17 | -18 | -17 | -17 |
| -6 | -6 | -6 | -6 | -5 | -5 | -5 | -4 | -1 | 2 | 2 | 5 | 8 | 12 | 15 | 19 | 22 | 25 | 27 | 27 | 27 |
| 26 | 26 | 26 | 26 | 25 | 22 | 20 | 18 | 20 | 21 | 21 | 21 | 19 | 18 | 16 | 14 | 13 | 12 | 10 | 9 | 8 |
| 6 | 5 | 3 | 1 | -1 | -3 | -5 | -6 | -8 | -9 | -9 | -10 | -11 | -13 | -14 | -14 | -16 | -17 | -19 | -21 | -24 |
| -26 | -26 | -27 | -27 | -24 | -22 | -19 | -17 | -15 | -9 | -26 | -12 | -11 | -10 | -8 | -6 | -3 | -1 | 2 | 5 | 8 |
| 12 | 15 | 19 | 22 | 25 | 28 | 28 | 28 | 27 | 26 | 26 | 26 | 25 | 25 | 26 | 27 | 28 | 30 | 31 | 32 | 33 |
| 33 | 34 | 35 | 33 | 30 | 28 | 25 | 22 | 19 | 16 | 14 | 13 | 13 | 11 | 9 | 7 | 2 | -4 | -7 | -10 | -13 |
| -14 | -15 | -16 | -17 | -17 | -17 | -17 | -18 | -17 | -17 | -17 | -16 | -18 | -20 | -22 | -23 | -24 | -24 | -25 | -26 | -26 |
| -22 | -19 | -16 | -13 | -10 | -4 | -6 | -5 | -4 | -4 | -4 | -3 | -3 | -2 | -1 | -2 | -2 | -3 | -3 | -3 | -3 |
| -5 | -6 | -7 | -8 | -9 | -9 | -10 | -10 | -9 | -8 | -8 | -7 | -6 | -4 | -3 | -2 | 0 | 1 | -1 | -3 | -6 |
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| -8 | -6 | -3 | 0 | 3 | 6 | 11 | 15 | 19 | 23 | 24 | 24 | 26 | 27 | 25 | 23 | 23 | 23 | 22 | 22 | 24 |
| 11 | 10 | 11 | 11 | 12 | 16 | 20 | 24 | 25 | 24 | 24 | 36 | 35 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 27 |
| 26 | 28 | 30 | 32 | 33 | 34 | 36 | 37 | 37 | 36 | 36 | 11 | 9 | 8 | 7 | 6 | 5 | 4 | 2 | 2 | 2 |
| 25 | 23 | 21 | 19 | 17 | 16 | 15 | 14 | 13 | 12 | 12 | 11 | 2 | 3 | 4 | 5 | 4 | 4 | 3 | 2 | 1 |
| 1 | 1 | 1 | 1 | 0 | 0 | -1 | -2 | -2 | -1 | -1 | 0 | -2 | -3 | -4 | -5 | -4 | 4 | 3 | 2 | 1 |
| 0 | -2 | -4 | -6 | -8 | -9 | -11 | -13 | -15 | -17 | -17 | -19 | -22 | -23 | -24 | -25 | -25 | -26 | -27 | -29 | -30 |
| -31 | -32 | -33 | -34 | -35 | -36 | -35 | -34 | -32 | -30 | -30 | -29 | -27 | -26 | -25 | -24 | -23 | -22 | -21 | -19 | -17 |
| -15 | -13 | -11 | -9 | -7 | -6 | -5 | -3 | -2 | -1 | -1 | -1 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 4 | 6 |
| 6 | 6 | 6 | 6 | 4 | 3 | 1 | -1 | -3 | -4 | -6 | -6 | -7 | -9 | -10 | -11 | -12 | -12 | -13 | -13 | 7 |
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| 9 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 |
| 13 | 14 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 23 | 13 | 13 | 13 | 16 | 14 | 12 | 10 | 8 | 5 | 2 |
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| -11 | -10 | -8 | -7 | -6 | -5 | -4 | -4 | -3 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 |
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| 8 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 10 | 10 | 10 | 9 | 7 | 7 | 6 | 5 | 5 | 4 | 4 | 4 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 8 | 8 | 7 | 6 | 3 | 1 | -2 | -5 | -7 | -10 | -23 | -13 | -15 | -17 | -19 | -21 | -23 | -26 | -27 | -28 | -29 |
| -30 | -31 | -30 | -29 | -28 | -26 | -25 | -24 | -23 | -23 | -23 | -22 | -22 | -21 | -20 | -20 | -19 | -18 | -17 | -17 | -16 |
| -15 | -13 | -12 | -11 | -10 | -9 | -8 | -7 | -6 | -6 | -6 | -5 | -4 | -4 | -3 | -3 | -3 | -3 | -3 | -2 | -10 |
| -3 | -3 | -3 | -3 | -4 | -4 | -5 | -6 | -6 | -6 | -6 | -6 | -8 | -8 | -7 | -6 | -5 | -4 | -3 | -1 | 0 |
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| 2 | 2 | 4 | 8 | 10 | 11 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 18 | 17 | 17 | 16 | 16 | 15 | 15 | 15 |
| 15 | 16 | 17 | 17 | 18 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 18 | 18 | 17 | 17 | 16 | 16 | 19 |
| 20 | 20 | 21 | 21 | 22 | 22 | 23 | 22 | 21 | 20 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 9 |
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| -6 | -6 | -5 | -5 | -5 | -5 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -5 |
| -4 | -4 | -3 | -2 | -1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 10 | 11 |
| 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 10 | 9 | 9 | 8 |
| 7 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 1 | 0 | 0 | -1 | -2 | -2 | -3 | -4 | -4 | -5 | -6 | -6 | -7 |
| -7 | -8 | -9 | -9 | -9 | -8 | -8 | -8 | -8 | -7 | -7 | -7 | -6 | -6 | -5 | -4 | -4 | -4 | -3 | -3 | -3 |

IIV314 33.002.0 LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
 STATION NO. 136 L.A. SUBWAY TERMINAL SUB-8SMT., LOS ANGELES, CAL.
 INSTR PERIOD = 0.096 SEC DAMPING = 0.690 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

EPICENTER - 33 35 00N, 117 59 00W
 COMP NSIW 34 03 00N, 118 15 00W

PEAK VALS ACIN = 95.6 CM/SEC/SEC AT 7.50 SEC VELO = -23.7 CM/SEC AT 13.62 SEC DISP = -16.3 CM AT 14.40 SEC

INITIAL VELO = -1.92565 CM/SEC INITIAL DISP = 0.16180 CM
 4946 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 27 | -62 | -87 | -83 | -73 | -74 | -87 | -86 | -75 | -73 | -79 | -90 | -92 | -55 | 16 | -14 | -69 | -37 | -5 | 21 |
| 49 | 38 | -2 | 20 | 75 | 91 | 108 | 72 | 21 | 59 | 45 | 13 | -28 | 23 | 64 | 94 | 53 | -5 | -37 | -55 |
| -24 | 30 | 116 | 182 | 193 | 124 | 73 | 29 | 19 | 54 | 125 | 183 | 138 | 120 | 129 | 149 | 156 | 156 | 130 | 91 |
| 65 | 40 | 0 | -31 | -77 | -102 | -147 | -167 | -86 | 31 | 93 | 194 | 133 | 39 | -5 | -10 | 16 | -24 | -49 | -67 |
| -91 | -114 | -123 | -132 | -103 | -18 | 66 | 118 | 75 | -65 | -131 | -226 | -128 | -4 | -24 | -53 | -48 | -57 | -77 | -94 |
| -95 | -98 | -57 | -53 | -73 | -139 | -112 | 65 | 191 | 10 | -65 | -145 | -170 | -201 | -113 | -101 | -108 | -52 | -3 | 60 |
| 127 | 132 | 72 | 43 | 156 | 497 | 392 | 73 | 10 | -44 | -118 | -214 | -278 | -258 | -243 | -284 | -337 | -297 | -302 | -284 |
| -10 | 150 | 138 | 260 | 414 | 419 | 353 | 473 | 499 | 547 | 552 | 588 | 563 | 556 | 462 | 274 | -23 | -256 | -241 | -201 |
| -232 | -279 | -274 | -172 | -115 | -150 | -230 | -205 | -124 | 34 | 73 | 55 | 49 | 45 | -64 | 330 | 138 | -86 | 392 | 768 |
| 190 | 72 | 31 | 109 | 235 | 386 | 493 | 369 | 242 | 203 | 133 | 58 | 52 | 10 | -31 | -97 | -187 | -351 | -243 | -218 |
| -232 | -132 | -54 | 153 | 359 | 434 | 511 | 554 | 673 | 551 | 392 | 139 | -106 | 361 | 341 | 102 | -112 | -326 | -644 | -487 |
| -455 | -563 | -597 | -510 | 131 | 25 | 121 | 15 | -206 | -313 | -376 | -448 | -335 | -212 | -135 | 63 | 95 | 24 | 0 | -55 |
| -6 | 69 | 71 | 52 | 61 | 145 | 242 | 405 | 168 | -165 | -441 | -631 | -712 | -775 | -835 | -690 | -589 | -523 | -446 | -340 |
| -263 | -216 | -115 | 36 | 139 | 142 | -76 | -243 | -262 | -287 | -192 | -126 | -40 | 17 | 115 | 187 | 157 | -37 | 134 | 213 |
| 140 | 59 | -116 | -237 | -33 | 99 | 171 | 172 | 131 | 84 | 65 | -11 | -90 | -216 | -325 | -256 | -204 | -176 | -118 | -51 |
| -122 | -255 | -118 | -66 | -232 | -375 | -225 | -77 | 25 | 59 | 94 | 252 | 84 | 59 | 6 | 11 | -64 | -59 | 121 | 188 |
| 197 | 96 | 90 | 54 | 27 | 51 | 109 | 80 | 42 | 1 | -77 | -143 | -358 | -474 | -334 | -290 | -154 | -10 | -11 | -20 |
| -142 | -260 | -243 | -234 | -278 | -386 | -413 | -262 | -189 | -120 | -64 | -111 | -211 | -250 | -341 | -454 | -422 | -215 | 41 | 233 |
| 276 | 242 | 312 | 354 | 414 | 459 | 489 | 512 | 558 | 597 | 676 | 722 | 782 | 855 | 936 | 956 | 886 | 854 | 796 | 767 |
| 735 | 684 | 630 | 580 | 598 | 567 | 543 | 527 | 444 | 268 | 31 | 62 | 85 | 34 | -3 | -68 | -15 | 97 | 123 | 79 |
| 18 | -23 | -85 | -67 | -5 | 56 | 116 | 182 | 189 | 144 | 111 | 70 | 21 | -19 | 26 | 69 | -25 | -122 | -202 | -304 |
| -352 | -414 | -477 | -426 | -369 | -302 | -228 | -154 | -73 | -1 | 72 | -8 | -109 | -149 | -207 | -266 | -383 | -464 | -537 | -553 |
| -531 | -517 | -436 | -373 | -260 | -262 | -246 | -163 | -96 | 38 | 98 | 37 | 136 | 218 | 236 | 161 | 120 | 59 | 87 | 89 |
| 40 | -58 | 29 | 20 | -32 | -2 | 60 | 26 | -95 | -230 | -233 | -315 | -311 | -339 | -398 | -405 | -389 | -416 | -432 | -479 |
| -453 | -441 | -312 | -118 | -115 | -18 | -4 | 23 | 17 | 87 | 103 | 91 | 77 | 66 | 94 | 139 | 162 | 203 | 230 | 225 |
| 151 | 93 | 99 | 134 | 91 | 72 | 27 | -17 | -152 | -223 | -267 | -104 | -103 | -194 | -214 | -253 | -174 | -105 | -84 | -168 |
| -73 | 137 | 180 | 210 | 229 | 242 | 219 | 187 | 127 | 80 | 71 | 93 | 105 | 125 | 142 | 159 | 171 | 137 | 105 | 70 |
| 32 | -39 | -19 | 3 | 27 | 57 | 45 | -1 | -2 | 21 | -10 | -32 | -104 | -152 | -66 | -45 | -47 | -85 | -45 | 54 |
| 107 | 167 | 222 | 260 | 227 | 191 | 144 | 144 | 165 | 178 | 146 | 88 | 74 | 66 | 91 | 46 | -16 | -119 | -161 | -194 |
| -137 | -66 | -23 | -27 | 23 | 125 | 162 | 167 | 184 | 148 | 108 | 70 | 76 | 66 | 19 | 20 | 100 | 111 | 88 | 60 |
| 92 | 138 | 159 | 168 | 139 | 118 | 158 | 205 | 235 | 258 | 248 | 264 | 215 | 145 | 63 | 29 | 26 | 92 | 82 | 58 |
| 23 | -7 | -158 | -141 | -101 | -103 | -137 | -95 | -56 | -1 | -72 | -112 | -138 | -91 | -129 | -174 | -209 | -258 | -309 | -268 |
| -267 | -305 | -316 | -463 | -518 | -516 | -542 | -558 | -584 | -551 | -520 | -520 | -541 | -502 | -447 | -389 | -340 | -233 | -104 | -101 |
| -139 | -204 | -160 | -108 | -98 | -176 | -259 | -364 | -413 | -430 | -394 | -361 | -387 | -416 | -430 | -371 | -313 | -244 | -175 | -111 |
| -42 | 4 | 29 | 39 | 9 | 62 | 109 | 121 | 138 | 154 | 171 | 217 | 214 | 156 | 123 | 161 | 209 | 186 | 135 | 115 |
| 189 | 247 | 285 | 323 | 353 | 383 | 412 | 440 | 467 | 494 | 518 | 542 | 566 | 580 | 593 | 607 | 598 | 583 | 568 | 555 |
| 529 | 513 | 547 | 579 | 622 | 698 | 690 | 635 | 596 | 543 | 493 | 451 | 431 | 401 | 382 | 341 | 293 | 232 | 147 | 87 |
| 40 | 19 | -8 | -173 | -235 | -294 | -351 | -447 | -532 | -586 | -604 | -566 | -538 | -500 | -460 | -403 | -351 | -310 | -248 | -213 |
| -170 | -121 | -76 | -28 | 36 | 102 | 145 | 129 | 85 | 132 | 192 | 234 | 297 | 268 | 233 | 205 | 169 | 131 | 57 | 64 |
| 43 | 37 | 76 | 86 | 57 | 36 | 16 | -3 | -24 | -32 | -10 | 6 | 35 | 35 | 24 | 16 | 1 | -10 | -32 | -41 |
| -28 | -20 | -11 | -3 | -18 | -38 | -73 | -129 | -167 | -221 | -237 | -208 | -195 | -194 | -224 | -192 | -130 | -83 | -40 | -42 |
| -37 | 28 | 78 | 107 | 120 | 136 | 121 | 132 | 157 | 177 | 177 | 166 | 162 | 187 | 214 | 173 | 136 | 61 | 57 | 64 |
| 43 | 13 | -31 | -83 | -154 | -240 | -224 | -226 | -244 | -278 | -273 | -261 | -235 | -234 | -269 | -276 | -295 | -264 | -250 | -243 |
| -235 | -225 | -217 | -205 | -196 | -179 | -163 | -101 | -127 | -144 | -107 | -77 | -36 | -8 | -25 | -43 | -25 | -4 | 35 | -5 |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -26 | -44 | -30 | 1 | 4 | 19 | 3 | -22 | -12 | 48 | 73 | 94 | 99 | 75 | 77 | 101 | 121 | 149 | 98 | 77 |
| 64 | 60 | 60 | 67 | 86 | 93 | 102 | 111 | 129 | 150 | 165 | 182 | 203 | 225 | 259 | 264 | 230 | 204 | 174 | 143 |
| 101 | 73 | 48 | 22 | -5 | -17 | -3 | -18 | -50 | -100 | -112 | -74 | -47 | -36 | -58 | -69 | -71 | -58 | -52 | -40 |
| -29 | -7 | -55 | -77 | -57 | -40 | -77 | -98 | -106 | -128 | -177 | -198 | -167 | -201 | -240 | -235 | -209 | -206 | -216 | -224 |
| -220 | -201 | -183 | -156 | -186 | -222 | -259 | -247 | -242 | -260 | -270 | -260 | -249 | -248 | -276 | -299 | -319 | -339 | -335 | -321 |
| -311 | -297 | -288 | -263 | -200 | -155 | -136 | -105 | -69 | -26 | -22 | -11 | 68 | 119 | 108 | 94 | 102 | 126 | 146 | 172 |
| 196 | 213 | 220 | 230 | 247 | 274 | 252 | 241 | 253 | 270 | 285 | 306 | 321 | 335 | 338 | 323 | 311 | 300 | 288 | 267 |
| 214 | 191 | 175 | 174 | 191 | 199 | 191 | 210 | 239 | 259 | 221 | 205 | 196 | 210 | 216 | 197 | 177 | 153 | 126 | 94 |
| 61 | 35 | -11 | -39 | -50 | -103 | -189 | -253 | -242 | -242 | -262 | -285 | -290 | -261 | -221 | -175 | -135 | -121 | -161 | -193 |
| -202 | -155 | -138 | -121 | -105 | -87 | -66 | -34 | -14 | 7 | 24 | 42 | 56 | 64 | 73 | 71 | 55 | 45 | 49 | 54 |
| 58 | 65 | 55 | 33 | 35 | 42 | 47 | 54 | 53 | 44 | 38 | 30 | 29 | 30 | 31 | 32 | 27 | 20 | 16 | 18 |
| 20 | 21 | 14 | 8 | 2 | -3 | -8 | -69 | -13 | -8 | -35 | -77 | -79 | -58 | -50 | -39 | -25 | -5 | 16 | 57 |
| 91 | 118 | 102 | 72 | 27 | 25 | 57 | 69 | 68 | 40 | 23 | -1 | -20 | -26 | -19 | -17 | -23 | -32 | -36 | -40 |
| -45 | -55 | -68 | -71 | -49 | -31 | -2 | 5 | -21 | -33 | -26 | -7 | 1 | 13 | 7 | -2 | -10 | -15 | -21 | -29 |
| -41 | -41 | -40 | -38 | -44 | -41 | -35 | -30 | -22 | 1 | 10 | 22 | 37 | 52 | 51 | 47 | 45 | 47 | 50 | 47 |
| 38 | 30 | 17 | 3 | 2 | 8 | 7 | -6 | -20 | -36 | -58 | -40 | -26 | -15 | -22 | -20 | 7 | 44 | 54 | 60 |
| 97 | 106 | 127 | 139 | 153 | 144 | 125 | 115 | 109 | 101 | 94 | 84 | 74 | 64 | 44 | 33 | 23 | 13 | -7 | -15 |
| -6 | 1 | -7 | -18 | -46 | -56 | -39 | -32 | -17 | -30 | -66 | -65 | -26 | -6 | 17 | 28 | 21 | -1 | 14 | 15 |
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| 39 | 41 | 42 | 45 | 45 | 40 | 34 | 26 | 5 | -14 | -33 | -33 | -30 | -55 | -71 | -100 | -99 | -85 | -74 | -63 |
| -52 | -72 | -67 | -46 | -34 | -17 | 1 | -15 | -32 | -22 | -15 | -3 | 10 | 8 | 7 | -10 | -3 | 2 | 13 | 27 |
| 35 | 42 | 50 | 50 | 47 | 45 | 43 | 39 | 34 | 29 | 33 | 38 | 43 | 48 | 56 | 67 | 76 | 86 | 95 | 104 |
| 97 | 89 | 80 | 75 | 76 | 75 | 75 | 74 | 59 | 41 | 44 | 51 | 56 | 63 | 58 | 47 | 38 | 45 | 54 | 64 |
| 64 | 45 | 29 | 15 | 29 | 40 | 47 | 51 | 58 | 62 | 69 | 71 | 79 | 69 | 48 | 16 | 18 | 11 | -19 | -31 |
| -45 | -54 | -74 | -105 | -121 | -113 | -105 | -102 | -108 | -113 | -119 | -126 | -133 | -141 | -148 | -153 | -159 | -165 | -169 | -171 |
| -175 | -176 | -173 | -169 | -166 | -157 | -149 | -140 | -134 | -118 | -114 | -122 | -113 | -107 | -95 | -79 | -59 | -54 | -53 | -15 |
| 21 | 43 | 51 | 57 | 56 | 59 | 50 | 38 | 18 | 6 | 17 | 0 | -12 | -17 | -9 | 1 | -4 | -10 | -24 | -44 |
| -50 | -41 | -37 | -41 | -45 | -38 | -30 | -27 | -17 | -12 | -34 | -48 | -65 | -70 | -62 | -57 | -66 | -73 | -89 | -97 |
| -62 | -48 | -27 | -28 | -38 | -21 | -10 | 7 | 10 | 10 | 21 | 29 | 38 | 47 | 54 | 62 | 73 | 84 | 96 | 112 |
| 103 | 97 | 89 | 81 | 71 | 67 | 66 | 65 | 63 | 62 | 49 | 49 | 58 | 60 | 51 | 42 | 33 | 35 | 38 | 42 |
| 44 | 45 | 47 | 48 | 49 | 48 | 41 | 35 | 24 | 2 | -17 | -33 | -47 | -60 | -67 | -73 | -71 | -62 | -50 | -28 |
| -18 | -5 | 7 | 21 | 34 | 48 | 48 | 91 | 81 | 77 | 71 | 84 | 94 | 101 | 84 | 69 | 43 | 32 | 25 | 38 |
| 44 | 35 | 25 | 19 | 22 | 26 | 28 | 32 | 33 | 33 | 32 | 33 | 27 | 20 | 6 | 4 | 14 | 20 | 16 | 2 |
| -9 | -22 | -34 | -47 | -58 | -70 | -81 | -99 | -117 | -133 | -147 | -133 | -121 | -109 | -100 | -85 | -71 | -54 | -41 | -16 |
| -11 | -11 | 15 | 48 | 71 | 66 | 59 | 51 | 58 | 61 | 65 | 55 | 47 | 40 | 45 | 48 | 53 | 57 | 62 | 67 |
| 71 | 64 | 56 | 49 | 36 | 22 | 30 | 41 | 26 | 10 | -4 | -17 | -30 | -41 | -46 | -33 | -22 | -9 | 2 | 16 |
| 29 | 44 | 54 | 59 | 43 | 22 | -4 | -27 | -17 | -9 | -16 | -32 | -38 | -32 | -28 | -19 | -3 | 12 | 23 | 38 |
| 59 | 77 | 97 | 111 | 108 | 106 | 101 | 90 | 78 | 69 | 58 | 56 | 62 | 67 | 66 | 51 | 42 | 31 | 34 | 50 |
| 55 | 60 | 65 | 69 | 74 | 79 | 83 | 76 | 66 | 53 | 32 | 28 | 14 | 1 | 7 | -8 | -17 | -31 | -29 | -19 |
| -19 | -31 | -38 | -52 | -67 | -64 | -61 | -72 | -92 | -96 | -81 | -68 | -55 | -50 | -45 | -39 | -33 | -26 | -31 | -43 |
| -52 | -60 | -67 | -75 | -80 | -86 | -92 | -98 | -101 | -106 | -106 | -103 | -101 | -96 | -90 | -84 | -67 | -48 | -30 | -12 |
| 2 | -13 | -13 | 6 | 16 | 2 | 5 | 23 | 28 | 31 | 34 | 37 | 39 | 33 | 29 | 39 | 28 | 11 | -11 | -34 |
| -38 | -42 | -43 | -36 | -29 | -20 | -11 | -15 | -19 | -24 | -22 | -17 | -13 | -6 | 6 | 18 | 31 | 44 | 42 | 36 |
| 31 | 26 | 31 | 36 | 40 | 45 | 45 | 40 | 37 | 33 | 33 | 37 | 40 | 44 | 48 | 49 | 49 | 49 | 50 | 50 |
| 50 | 52 | 53 | 54 | 55 | 44 | 33 | 17 | 1 | 2 | 10 | -10 | -37 | -71 | -74 | -66 | -64 | -75 | -90 | -92 |
| -77 | -65 | -43 | -33 | -40 | -46 | -47 | -35 | -26 | -16 | -22 | -27 | -35 | -30 | -15 | -6 | 1 | 9 | 16 | 25 |
| 33 | 39 | 38 | 38 | 35 | 27 | 20 | 13 | 9 | 5 | 1 | 2 | 7 | 11 | 8 | 1 | -5 | -10 | -13 | -17 |
| -21 | -22 | -22 | -23 | -23 | -24 | -24 | -25 | -26 | -28 | -29 | -30 | -32 | -37 | -41 | -46 | -51 | -56 | -51 | -42 |
| -31 | -13 | -1 | 12 | 22 | 26 | 31 | 34 | 33 | 32 | 31 | 30 | 25 | 20 | 15 | 10 | 5 | 1 | -3 | -7 |
| -10 | -13 | -16 | -19 | -21 | -21 | -21 | -20 | -20 | -17 | -11 | -5 | 1 | 6 | 12 | 18 | 25 | 33 | 38 | 40 |
| 43 | 45 | 45 | 45 | 46 | 46 | 46 | 44 | 40 | 38 | 33 | 19 | 3 | -1 | 5 | 9 | 9 | 1 | -3 | -11 |
| -18 | -26 | -34 | -40 | -34 | -28 | -30 | -40 | -49 | -59 | -69 | -78 | -70 | -63 | -56 | -51 | -45 | -40 | -34 | -29 |
| -23 | -17 | -16 | -14 | -13 | -12 | -11 | -14 | -16 | -19 | -19 | -15 | -12 | -8 | -5 | -2 | -8 | -13 | -19 | -23 |
| -31 | -39 | -47 | -56 | -66 | -76 | -82 | -75 | -70 | -64 | -58 | -51 | -44 | -37 | -30 | -22 | -24 | -30 | -34 | -31 |
| -26 | -30 | -39 | -44 | -44 | -41 | -46 | -53 | -59 | -56 | -50 | -46 | -40 | -35 | -29 | -23 | -12 | -5 | -13 | -18 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -14 | -15 | -16 | -17 | -18 | -19 | -17 | -14 | -12 | -10 | -8 | -6 | -4 | -2 | 0 | 2 | 3 | 5 | 7 | 9 |
| 11 | 13 | 16 | 18 | 20 | 23 | 25 | 27 | 26 | 26 | 25 | 24 | 23 | 22 | 21 | 21 | 20 | 19 | 18 | 18 |
| 17 | 17 | 16 | 16 | 15 | 15 | 14 | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 7 | 4 |
| 1 | -1 | -4 | -6 | -3 | -1 | 1 | 3 | 5 | 8 | 10 | 12 | 14 | 15 | 17 | 19 | 20 | 22 | 24 | 25 |
| 27 | 29 | 31 | 32 | 34 | 35 | 35 | 35 | 36 | 36 | 37 | 37 | 36 | 34 | 32 | 30 | 28 | 27 | 26 | 24 |
| 23 | 21 | 19 | 17 | 15 | 13 | 11 | 8 | 6 | 3 | 0 | -2 | -5 | -7 | -10 | -12 | -15 | -17 | -19 | -22 |
| -24 | -26 | -28 | -29 | -29 | -30 | -30 | -30 | -31 | -31 | -30 | -30 | -30 | -30 | -30 | -29 | -29 | -27 | -22 | -17 |
| -13 | -8 | -7 | -8 | -9 | -10 | -11 | -13 | -14 | -14 | -13 | -12 | -11 | -11 | -10 | -10 | -9 | -4 | 0 | -13 |
| -25 | -40 | -45 | -40 | -37 | -34 | -29 | -28 | -27 | -26 | -25 | -24 | -23 | -23 | -25 | -26 | -27 | -28 | -30 | -31 |
| -30 | -31 | -33 | -34 | -34 | -33 | -33 | -32 | -32 | -31 | -30 | -30 | -30 | -30 | -30 | -30 | -30 | -29 | -28 | -27 |
| -25 | -24 | -23 | -22 | -21 | -20 | -19 | -23 | -28 | -32 | -28 | -24 | -20 | -15 | -11 | -8 | -7 | -6 | -4 | -3 |
| -2 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 15 | 16 | 18 | 18 |
| 18 | 19 | 19 | 19 | 20 | 22 | 24 | 26 | 28 | 29 | 31 | 33 | 33 | 34 | 35 | 37 | 39 | 41 | 43 | 45 |
| 45 | 41 | 39 | 36 | 34 | 30 | 25 | 20 | 16 | 12 | 10 | 9 | 7 | 6 | 4 | 3 | 3 | 3 | 3 | 3 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 10 | 13 | 17 | 20 | 23 | 25 | 28 | 31 | 32 |
| 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 31 | 29 | 27 | 25 | 23 | 22 | 22 | 21 | 22 | 20 | 16 | 13 |
| 9 | 5 | 4 | 6 | 7 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 16 | 13 | 10 | 7 | 4 | 2 |
| 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | -1 | -2 | -4 | -5 | -6 | -6 |
| -6 | -6 | -6 | -8 | -10 | -12 | -14 | -16 | -16 | -16 | -16 | -16 | -16 | -16 | -16 | -16 | -17 | -17 | -17 | -17 |
| -17 | -17 | -17 | -17 | -17 | -17 | -16 | -17 | -18 | -19 | -20 | -21 | -22 | -23 | -26 | -28 | -30 | -33 | -35 | -36 |
| -36 | -37 | -37 | -37 | -37 | -36 | -36 | -35 | -35 | -35 | -35 | -35 | -35 | -35 | -34 | -36 | -38 | -39 | -41 | -43 |
| -44 | -45 | -45 | -46 | -46 | -47 | -47 | -46 | -45 | -45 | -44 | -43 | -42 | -41 | -37 | -33 | -30 | -26 | -22 | -17 |
| -13 | -9 | -5 | -1 | 4 | 8 | 12 | 12 | 12 | 12 | 12 | 13 | 15 | 17 | 20 | 22 | 25 | 28 | 30 | 31 |
| 33 | 35 | 36 | 36 | 35 | 34 | 32 | 32 | 32 | 32 | 32 | 32 | 29 | 26 | 22 | 19 | 15 | 11 | 5 | 0 |
| -5 | -5 | -6 | -6 | -6 | -5 | -4 | -3 | -2 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 10 | 11 | 12 |
| 13 | 15 | 16 | 17 | 18 | 18 | 18 | 18 | 19 | 18 | 18 | 17 | 17 | 16 | 15 | 15 | 15 | 15 | 15 | 15 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 12 | 11 | 9 | 7 | 6 |
| 5 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | -1 | -1 | -1 | -1 | -1 | -1 | 0 | 0 | 0 | 0 | 1 |
| 1 | 1 | 3 | 4 | 6 | 7 | 9 | 9 | 10 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 13 |
| 11 | 9 | 7 | 4 | 2 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 11 | 12 | 13 | 13 |
| 14 | 15 | 17 | 18 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 20 | 20 | 19 | 18 | 16 |
| 15 | 15 | 16 | 17 | 18 | 19 | 21 | 23 | 26 | 28 | 31 | 34 | 36 | 38 | 33 | 29 | 27 | 24 | 21 | 18 |
| 15 | 13 | 10 | 7 | 5 | 1 | -4 | -9 | -14 | -19 | -22 | -23 | -25 | -27 | -28 | -29 | -29 | -29 | -29 | -29 |
| -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -28 | -28 | -27 | -26 | -26 | -25 | -25 | -24 | -23 |
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| -3 | -2 | -2 | -1 | 0 | 1 | 1 | 2 | 2 | 4 | 6 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 24 | 25 |
| 26 | 27 | 29 | 29 | 27 | 26 | 25 | 23 | 18 | 14 | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 10 |
| 12 | 14 | 17 | 19 | 21 | 24 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 17 |
| 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 14 | 14 | 13 | 12 | 11 |
| 10 | 9 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 4 | 3 | 2 | 0 | -1 |
| -3 | -4 | -5 | -4 | -4 | -4 | -3 | -3 | -3 | -4 | -4 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -6 |
| -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -7 | -7 | -7 | -7 |
| -7 | -8 | -8 | -8 | -8 | -9 | -9 | -10 | -11 | -12 | -12 | -13 | -11 | -9 | -6 | -4 | -2 | 1 | 3 | 2 |
| -1 | -4 | -6 | -9 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -19 | -20 | -20 | -20 | -21 | -19 | -17 | -15 |
| -13 | -10 | -8 | -5 | 0 | 5 | 10 | 13 | 11 | 9 | 8 | 6 | 3 | -1 | -4 | -8 | -11 | -11 | -11 | -11 |
| -11 | -11 | -11 | -11 | -11 | -11 | -10 | -8 | -7 | -5 | -4 | -1 | 3 | 7 | 10 | 10 | 11 | 11 | 12 | 12 |
| 13 | 13 | 11 | 9 | 6 | 4 | 2 | -1 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -3 | -4 | -6 | -7 | -9 |
| -10 | -11 | -11 | -11 | -11 | -11 | -12 | -11 | -6 | -1 | 3 | 8 | 13 | 16 | 15 | 14 | 13 | 12 | 11 | 10 |
| 8 | 7 | 6 | 5 | 3 | 1 | -1 | -2 | -4 | -4 | -3 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 3 | 4 |
| 5 | 5 | 5 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -1 | -2 | -4 | -5 | -7 | -8 | -10 | -11 | -11 | -10 | -9 | -8 | -7 | -6 | -5 | -4 | -3 | -2 | -1 | 3 |
| 5 | 7 | 9 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 13 | 11 | 9 | 8 | 6 | 4 | 3 | 1 | 0 | -1 |

IIV314 33.002.0
STATION NO. 136

LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
L.A. SUBWAY TERMINAL SUB-BSTMT., LOS ANGELES, CAL.

EPICENTER - 33 35 OON, 117 59 OOW
COMP UP 34 03 OON, 118 15 OOW
ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

INSTR PERIOD = 0.102 SEC DAMPING = 1.000

PEAK VALS ACCLN = 63.6 CM/SEC/SEC AT 5.34 SEC VELO = 9.1 CM/SEC AT 12.36 SEC DISP = -5.7 CM AT 16.96 SEC

INITIAL VELO = 0.20938 CM/SEC INITIAL DISP = 0.50571 CM

4948 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 48 | 94 | 114 | 170 | 214 | 269 | 240 | 101 | 34 | -67 | -208 | -260 | -90 | -17 | -139 | -209 | -206 | -43 | -16 | -59 |
| -125 | -125 | -68 | -54 | -52 | -101 | -128 | -106 | 121 | 316 | 324 | 252 | 160 | 66 | -17 | -57 | -143 | -275 | -432 | -296 |
| -28 | -100 | -158 | -152 | -225 | 66 | 464 | 111 | -93 | -115 | 47 | -29 | -34 | -172 | -165 | -86 | -28 | 25 | 58 | 16 |
| 106 | 83 | 13 | 15 | -21 | -62 | -87 | -117 | -32 | 61 | 1 | -171 | -374 | -473 | -136 | -20 | 39 | 9 | 69 | 120 |
| 358 | 391 | 261 | 291 | 286 | 116 | -49 | -346 | -177 | -51 | 86 | 282 | 492 | 498 | 456 | 354 | 86 | -90 | -39 | 119 |
| 100 | 18 | -68 | -54 | -45 | -45 | 8 | 57 | 95 | 57 | -28 | -217 | -484 | -548 | -404 | -136 | 95 | 288 | 291 | 110 |
| -112 | -228 | -21 | 71 | 125 | -42 | -157 | -106 | 78 | 228 | 309 | 287 | 191 | -91 | -265 | -266 | -328 | -135 | 53 | 124 |
| 114 | 100 | 69 | -71 | -501 | -431 | -289 | -382 | -151 | -25 | -71 | -114 | 110 | 377 | 350 | 273 | 306 | 115 | -190 | -121 |
| 129 | 140 | 70 | 124 | 191 | 211 | 204 | 138 | 10 | -84 | -166 | -16 | 76 | 210 | 171 | 150 | 73 | 27 | 42 | 63 |
| 61 | 41 | -20 | -265 | -399 | -341 | -229 | -175 | -262 | -455 | -517 | -160 | 67 | 242 | 537 | 177 | 108 | 15 | -36 | 25 |
| 39 | 206 | 408 | 384 | 328 | 159 | 25 | -131 | -160 | -209 | -204 | -207 | -18 | 312 | 399 | 260 | 184 | -106 | -330 | -371 |
| -95 | 389 | 133 | -90 | -114 | -77 | 122 | 209 | 169 | 139 | 141 | 280 | 354 | 331 | 314 | 267 | 142 | -53 | -76 | -51 |
| -9 | 14 | -25 | -55 | -90 | -79 | -29 | -43 | -103 | -167 | -133 | -45 | 4 | 3 | -76 | -132 | -341 | -335 | -15 | 111 |
| 96 | -29 | -148 | -224 | -314 | -324 | 73 | 636 | 217 | 31 | -15 | 137 | 168 | 56 | -91 | -138 | -107 | -179 | -284 | -313 |
| -184 | -154 | -149 | -43 | -6 | -46 | -284 | -367 | -177 | -91 | -110 | 286 | 86 | -239 | -101 | 166 | 273 | 172 | 80 | 15 |
| -112 | -61 | 125 | 55 | -73 | -143 | -91 | -24 | 76 | 183 | 175 | 147 | 140 | 182 | 229 | 228 | 235 | 110 | 26 | -57 |
| -118 | -50 | 31 | -22 | -178 | -281 | -252 | -231 | -251 | -305 | -431 | -299 | -176 | 63 | 86 | 9 | -45 | -94 | -101 | 5 |
| 167 | 173 | 114 | 105 | 96 | 98 | 104 | 111 | 108 | 84 | 44 | -2 | -48 | -63 | -35 | -16 | 8 | 48 | 65 | 79 |
| 97 | 53 | -7 | -84 | -164 | -58 | 5 | 10 | -4 | -24 | 32 | -8 | -65 | -104 | -121 | -111 | -127 | -151 | -183 | -209 |
| -294 | -161 | 55 | 51 | -49 | -156 | -210 | -200 | -24 | 40 | -82 | -82 | -122 | -139 | -161 | -155 | -76 | 44 | 105 | 81 |
| 64 | 43 | 65 | 89 | 125 | 158 | 173 | 97 | 14 | -110 | -125 | -111 | 107 | 358 | 333 | 240 | 171 | 153 | 175 | 256 |
| 311 | 307 | 228 | 193 | 171 | 133 | 99 | 59 | 18 | 2 | 43 | 109 | 230 | 369 | 496 | 459 | 364 | 288 | 199 | 101 |
| 152 | -19 | -204 | -243 | -222 | -199 | -259 | -409 | -440 | -418 | -405 | -317 | -275 | -257 | -185 | -171 | -188 | -219 | -256 | -109 |
| 214 | 187 | 134 | 93 | -2 | -9 | -10 | 3 | 38 | 89 | 119 | 35 | -21 | -54 | -116 | -138 | -162 | -196 | -170 | -86 |
| -25 | 68 | 90 | 80 | 92 | 131 | 52 | 0 | -66 | -121 | -123 | -115 | -124 | -129 | -45 | 32 | 36 | 19 | -9 | -46 |
| -67 | -94 | -109 | -137 | -108 | 49 | 285 | 383 | 233 | 196 | 156 | 142 | 107 | 103 | 113 | 219 | 288 | 271 | 287 | 265 |
| 204 | 72 | -54 | -237 | -273 | -201 | -194 | -131 | -130 | -157 | -131 | -99 | -138 | -147 | -167 | -137 | -28 | 51 | 13 | -22 |
| -24 | -2 | 35 | 57 | 34 | 12 | -11 | -27 | -40 | -27 | 13 | 15 | -13 | -4 | 34 | 51 | 90 | 120 | 139 | 122 |
| 85 | 58 | -8 | -8 | -6 | -27 | -68 | -92 | -118 | -132 | -53 | 5 | 49 | 59 | 59 | 64 | 93 | 36 | -21 | -18 |
| 28 | 43 | -6 | -28 | 25 | 118 | 196 | 254 | 267 | 283 | 287 | 221 | 170 | 155 | 128 | 56 | 56 | 128 | 189 | 203 |
| 199 | 209 | 206 | 174 | 139 | 110 | 106 | 93 | 54 | 40 | 44 | 40 | 44 | 50 | 54 | 57 | 43 | 35 | -2 | -50 |
| -105 | -172 | -213 | -200 | -198 | -204 | -216 | -242 | -260 | -267 | -281 | -251 | -193 | -158 | -131 | -91 | -27 | -40 | -59 | -49 |
| -33 | -27 | -23 | -19 | -20 | -43 | -65 | -107 | -127 | -147 | -160 | -96 | -60 | -41 | -5 | 15 | 7 | -2 | -22 | -27 |
| -20 | -16 | -13 | -15 | -24 | -31 | -31 | -27 | -43 | -39 | -38 | -53 | -68 | -63 | -17 | -5 | 4 | -20 | -34 | -46 |
| -46 | -20 | -14 | -50 | -69 | -78 | -98 | -124 | -141 | -156 | -175 | -155 | -103 | -52 | 1 | 23 | 26 | 37 | 46 | 49 |
| 54 | 46 | 18 | 1 | -22 | -22 | -7 | 1 | -20 | -64 | -106 | -137 | -152 | -166 | -200 | -218 | -177 | -146 | -119 | -95 |
| -68 | -49 | -37 | -28 | -45 | -59 | -61 | -42 | -32 | -21 | 6 | -19 | -53 | -60 | -63 | -11 | 35 | 100 | 125 | 135 |
| 155 | 180 | 199 | 208 | 178 | 158 | 151 | 130 | 152 | 182 | 175 | 183 | 179 | 164 | 148 | 137 | 115 | 88 | 52 | 17 |
| -38 | -49 | -41 | -62 | -96 | -123 | -135 | -133 | -130 | -107 | -93 | -77 | -64 | -41 | -26 | -14 | -21 | -30 | -35 | -25 |
| 4 | 22 | 11 | 5 | 11 | 31 | 37 | 22 | 14 | 13 | 11 | 9 | 1 | -14 | -36 | -80 | -93 | -108 | -85 | -51 |
| -12 | 14 | 39 | 77 | 91 | 73 | 70 | 66 | 68 | 73 | 68 | 43 | 26 | 11 | 10 | 3 | 12 | -1 | -19 | -32 |
| -44 | -51 | -34 | -37 | -51 | -48 | 55 | 103 | 112 | 120 | 108 | 95 | 89 | 79 | 73 | 69 | 71 | 74 | 66 | 54 |
| 41 | 24 | 27 | 36 | 35 | 34 | 28 | 46 | 125 | 217 | 208 | 195 | 205 | 216 | 225 | 230 | 215 | 199 | 169 | 142 |
| 108 | 86 | 65 | 49 | 35 | 3 | -29 | -32 | -43 | -53 | -64 | -42 | -5 | 17 | 0 | 8 | 13 | 18 | 20 | 16 |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 11 | 7 | 1 | -4 | -19 | -42 | -46 | -25 | 4 | 23 | 38 | 14 | -6 | -18 | -21 | 16 | 59 | 65 | 64 | 54 |
| 33 | -10 | -34 | -44 | -52 | -63 | -75 | -89 | -98 | -106 | -103 | -97 | -79 | -59 | -44 | -54 | -78 | -69 | -35 | -9 |
| 20 | 33 | 17 | 16 | 33 | 46 | 57 | 71 | 85 | 85 | 86 | 89 | 88 | 49 | 9 | -6 | -2 | -3 | -2 | -7 |
| 0 | 10 | 38 | 62 | 47 | 38 | 39 | 57 | 76 | 62 | 40 | 31 | 20 | 15 | 15 | 4 | -13 | -41 | -87 | -136 |
| -160 | -167 | -204 | -224 | -200 | -156 | -145 | -130 | -145 | -172 | -184 | -193 | -179 | -145 | -135 | -94 | -75 | -103 | -111 | -114 |
| -118 | -104 | -79 | -62 | -46 | -20 | -3 | -7 | 0 | 20 | 39 | 53 | 58 | 42 | 20 | 6 | -12 | -31 | -49 | -61 |
| -72 | -84 | -97 | -113 | -127 | -138 | -148 | -149 | -150 | -150 | -143 | -141 | -121 | -97 | -90 | -82 | -44 | -31 | -31 | -37 |
| -46 | -51 | -57 | -39 | -6 | -25 | -48 | -54 | -64 | -60 | -31 | -12 | 4 | 16 | 42 | 80 | 97 | 83 | 78 | 75 |
| 74 | 72 | 109 | 121 | 90 | 81 | 70 | 85 | 93 | 99 | 102 | 115 | 143 | 211 | 198 | 181 | 177 | 172 | 189 | 237 |
| 245 | 204 | 177 | 147 | 119 | 89 | 73 | 64 | 84 | 111 | 116 | 99 | 61 | 49 | 40 | 30 | 13 | -1 | -21 | -35 |
| -59 | -36 | 26 | 35 | 39 | 19 | 14 | -4 | -35 | -65 | -96 | -121 | -107 | -99 | -92 | -82 | -67 | -34 | -30 | -40 |
| -46 | -29 | -9 | -6 | -8 | -21 | -28 | -30 | -22 | -35 | -44 | -56 | -78 | -101 | -122 | -149 | -140 | -110 | -93 | -74 |
| -60 | -47 | -57 | -67 | -22 | -12 | -28 | -33 | -24 | 10 | 48 | 79 | 83 | 92 | 101 | 92 | 85 | 83 | 88 | 92 |
| 83 | 69 | 59 | 50 | 42 | 32 | 24 | 13 | 17 | 46 | 65 | 83 | 79 | 69 | 64 | 61 | 56 | 64 | 70 | 61 |
| 58 | 50 | 66 | 99 | 117 | 133 | 119 | 107 | 99 | 89 | 81 | 68 | 56 | 29 | -1 | -13 | 15 | 45 | 39 | 32 |
| 29 | 33 | 42 | 48 | 56 | 67 | 76 | 74 | 72 | 72 | 81 | 80 | 64 | 55 | 20 | 6 | 2 | 2 | 10 | 14 |
| 13 | -4 | -17 | -28 | -38 | -47 | -59 | -56 | -45 | -66 | -83 | -97 | -122 | -152 | -150 | -154 | -151 | -139 | -134 | -139 |
| -142 | -146 | -137 | -94 | -60 | -32 | -30 | -26 | -20 | -28 | -35 | -38 | -45 | -50 | -66 | -89 | -94 | -101 | -92 | -84 |
| -77 | -67 | -67 | -88 | -97 | -101 | -105 | -111 | -103 | -96 | -102 | -108 | -112 | -111 | -88 | -72 | -57 | -64 | -76 | -83 |
| -86 | -68 | -54 | -36 | -5 | 3 | 8 | -1 | -5 | -9 | -13 | -22 | -14 | 2 | 7 | 4 | -8 | -20 | -26 | -34 |
| -39 | -50 | -34 | 4 | 46 | 42 | 19 | 34 | 43 | 51 | 54 | 31 | 9 | 2 | -10 | 0 | 42 | 70 | 99 | 106 |
| 84 | 74 | 73 | 70 | 68 | 70 | 71 | 68 | 63 | 60 | 55 | 54 | 48 | 62 | 92 | 103 | 106 | 108 | 114 | 121 |
| 129 | 134 | 138 | 123 | 110 | 103 | 95 | 86 | 90 | 100 | 93 | 78 | 69 | 60 | 53 | 41 | 28 | 2 | -23 | -37 |
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| 18 | 13 | 11 | 9 | 7 | 13 | 18 | 11 | 8 | 6 | 3 | 7 | 23 | 36 | 50 | 64 | 71 | 72 | 67 | 60 |
| 55 | 50 | 43 | 37 | 32 | 37 | 38 | 37 | 19 | -1 | -19 | -47 | -43 | -28 | -36 | -54 | -65 | -75 | -84 | -92 |
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| 49 | 40 | 34 | 29 | 28 | 32 | 34 | 34 | 24 | 15 | 8 | -1 | -13 | -17 | -20 | -20 | 1 | 37 | 42 | 30 |
| 48 | 61 | 67 | 74 | 76 | 69 | 67 | 67 | 71 | 73 | 76 | 70 | 60 | 57 | 55 | 52 | 49 | 46 | 43 | 40 |
| 35 | 38 | 48 | 60 | 60 | 52 | 50 | 46 | 60 | 94 | 112 | 98 | 89 | 85 | 76 | 77 | 85 | 87 | 76 | 66 |
| 59 | 42 | 20 | 9 | -2 | -9 | -13 | -19 | -24 | -30 | -38 | -49 | -59 | -70 | -65 | -58 | -69 | -81 | -88 | -94 |
| -100 | -106 | -100 | -92 | -86 | -88 | -104 | -115 | -124 | -131 | -138 | -127 | -100 | -83 | -79 | -95 | -103 | -103 | -101 | -103 |
| -93 | -71 | -53 | -44 | -48 | -48 | -43 | -12 | 8 | 15 | 19 | 26 | 18 | 9 | 9 | 23 | 34 | 35 | 27 | 24 |
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| -25 | -31 | -35 | -12 | 9 | 21 | 33 | 46 | 59 | 74 | 82 | 81 | 85 | 88 | 92 | 89 | 80 | 80 | 85 | 88 |
| 91 | 86 | 77 | 72 | 66 | 57 | 48 | 40 | 34 | 25 | 25 | 36 | 45 | 44 | 38 | 34 | 30 | 27 | 27 | 26 |
| 25 | 24 | 27 | 31 | 33 | 33 | 27 | 24 | 28 | 35 | 32 | 27 | 24 | 21 | 22 | 30 | 23 | 11 | 4 | -1 |
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| 35 | 37 | 35 | 30 | 28 | 25 | 22 | 19 | 16 | 7 | -2 | -5 | -6 | -9 | -11 | -10 | -7 | -5 | -3 | -2 |
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| 10 | 8 | 8 | 21 | 33 | 43 | 54 | 56 | 51 | 51 | 50 | 49 | 47 | 46 | 44 | 42 | 41 | 41 | 41 | 41 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 41 | 39 | 38 | 37 | 36 | 32 | 28 | 25 | 21 | 24 | 28 | 30 | 32 | 35 | 33 | 28 | 25 | 21 | 19 | 17 |
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| 16 | 24 | 31 | 33 | 36 | 39 | 42 | 36 | 31 | 27 | 23 | 32 | 34 | 36 | 38 | 33 | 25 | 19 | 13 | 6 |
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| 13 | 10 | 8 | 7 | 5 | 4 | 2 | 0 | -2 | -4 | -6 | -8 | -10 | -12 | -14 | -12 | -9 | -7 | -6 | -4 |
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| 47 | 49 | 53 | 49 | 40 | 34 | 28 | 22 | 12 | 0 | -10 | -21 | -32 | -37 | -39 | -44 | -43 | -37 | -39 | -48 |
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| 29 | 31 | 33 | 35 | 38 | 40 | 43 | 45 | 47 | 51 | 57 | 53 | 40 | 32 | 25 | 20 | 14 | 8 | 3 | -1 |
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| 21 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 22 | 23 | 24 | 25 | 24 | 22 |
| 22 | 21 | 20 | 17 | 14 | 11 | 9 | 7 | 10 | 12 | 13 | 15 | 17 | 19 | 18 | 13 | 10 | 6 | 3 | -1 |
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| 18 | 20 | 22 | 23 | 24 | 24 | 25 | 26 | 24 | 23 | 22 | 21 | 19 | 18 | 17 | 16 | 15 | 15 | 14 | 13 |
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| -14 | -7 | -5 | -4 | -3 | -2 | -3 | -5 | -6 | -6 | -5 | -7 | -4 | -1 | 1 | 3 | 5 | 8 | 10 | -9 |
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| 27 | 26 | 26 | 25 | 22 | 18 | 17 | 16 | 15 | 13 | 10 | 8 | 7 | 5 | 4 | 5 | 4 | 4 | 3 | 2 |
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| 20 | 19 | 18 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 16 | 15 | 14 | 12 | 11 | 10 |
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| 6 | 7 | 7 | 6 | 6 | 5 | 3 | 1 | -1 | -2 | -5 | -7 | -9 | -10 | -11 | -12 | -13 | -13 | -13 | -14 |
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| 17 | 22 | 27 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 28 | 27 | 27 | 26 | 26 | 25 | 24 | 23 | 22 | 22 |
| 21 | 18 | 16 | 14 | 12 | 12 | 11 | 11 | 8 | 5 | 1 | 0 | 0 | -1 | -2 | -2 | -1 | -1 | -1 | -1 |
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| 18 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 11 | 10 | 9 | 8 | 7 | 8 | 8 | 8 | 7 |
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| -2 | -2 | -2 | -1 | -1 | -1 | -2 | -2 | -2 | -2 | -3 | -4 | -6 | -6 | -6 | -6 | -6 |
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| -10 | -11 | -11 | -11 | -11 | -10 | -9 | -9 | -8 | -7 | -6 | -4 | -3 | -1 | 0 | 0 | -1 |
| 0 | -1 | 2 | 4 | 7 | 8 | 18 | 32 | 42 | 31 | 18 | 3 | 6 | 7 | 8 | 9 | 10 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 13 | 13 | 13 |
| 13 | 13 | 13 | 13 | 12 | 11 | 10 | 10 | 9 | 8 | 8 | 5 | 4 | 2 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | -1 | -1 | -1 | -1 | -1 | -1 | 0 | 0 | 1 | 1 | 1 |
| 2 | 1 | 0 | -1 | -2 | -3 | -4 | -5 | -5 | -6 | -7 | -8 | -8 | -8 | -8 | -8 | -8 |
| -8 | -8 | -8 | -8 | -9 | -9 | -9 | -9 | -9 | -9 | -10 | -12 | -13 | -15 | -17 | -2 | -1 |
| -3 | -2 | -3 | -1 | 1 | 2 | 3 | 5 | 8 | 10 | 13 | 13 | 12 | 11 | 12 | 13 | 14 |
| 14 | 15 | 15 | 16 | 16 | 18 | 19 | 20 | 20 | 20 | 19 | 17 | 15 | 12 | 10 | 8 | 6 |
| 6 | 5 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 2 | 2 | 0 | 0 | -1 |
| -2 | -2 | -3 | -4 | -4 | -5 | -5 | -5 | -6 | -6 | -7 | -10 | -14 | -16 | -18 | -18 | -18 |
| -17 | -18 | -17 | -18 | -17 | -17 | -16 | -16 | -16 | -15 | -13 | -12 | -10 | -9 | -8 | -7 | -6 |
| -6 | -4 | -3 | -2 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 6 | 5 | 4 | 3 |
| 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | -2 |
| -3 | -4 | -4 | -5 | -6 | -6 | -6 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 |
| -6 | -7 | -8 | -9 | -10 | -11 | -11 | -11 | -11 | -11 | -11 | -11 | -11 | -10 | -10 | -10 | -10 |
| -10 | -10 | -10 | -10 | -10 | -10 | -10 | -10 | -10 | -10 | -9 | -8 | -6 | -5 | -5 | -5 | -5 |
| -5 | -3 | -2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 5 | 5 | -6 | -9 | 14 |
| 11 | 8 | 7 | 8 | 7 | 6 | 6 | 5 | 5 | 4 | 4 | 2 | 1 | -1 | -2 | -2 | -2 |
| -3 | -3 | -4 | -5 | -6 | -7 | -7 | -8 | -7 | -7 | -7 | -7 | -7 | -7 | -6 | -4 | -3 |
| -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 6 | 4 | 4 | 3 | 2 | 3 |
| 3 | 4 | 4 | 4 | 5 | 4 | 3 | 1 | 0 | -1 | -1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 7 | 7 | 4 | 3 | 3 |
| 2 | 1 | 0 | 0 | 0 | 0 | -1 | -1 | -1 | -1 | -1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 1 | 3 | 5 | 6 | 8 | 10 | 11 | 11 | 11 | 12 | 13 | 14 | 16 | 17 | 16 | 17 |
| 16 | 16 | 15 | 12 | 11 | 9 | 8 | 9 | 11 | 11 | 12 | 13 | 15 | 16 | 17 | 16 | 17 |

IIV315 33.003.0 LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
STATION NO. 191 PUBLIC UTILITIES BLDG., LONG BEACH, CAL.
INSTR PERIOD = 0.105 SEC DAMPING = 0.494

EPICENTER - 33 35 00N, 117 59 00W
COMP SOUTH 33 46 11N, 118 11 35W
ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = 192.7 CM/SEC/SEC AT 2.98 SEC VELO = -29.4 CM/SEC AT 6.70 SEC DISP = 22.7 CM AT 5.74 SEC

INITIAL VELO = -1.95859 CM/SEC INITIAL DISP = -4.70624 CM

4949 INSTRUMENT AND BASELINE CORRECTED DATA AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-------|------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| -62 | 84 | 156 | 243 | 214 | 177 | 136 | 73 | 51 | 95 | 43 | -78 | -107 | 101 | 260 | 265 | 232 | 215 | 137 | 103 |
| 189 | 259 | 349 | 433 | 336 | 282 | 189 | 88 | 8 | 72 | 109 | 167 | 253 | 184 | -2 | -115 | -334 | -438 | -575 | -557 |
| -200 | 83 | 462 | 769 | 474 | 303 | 19 | -310 | -570 | -371 | -232 | -25 | 225 | 462 | 689 | 456 | 32 | -245 | -816 | -1043 |
| -754 | -211 | -28 | 891 | -1003 | -970 | -530 | -1196 | -834 | -866 | -537 | -432 | -137 | 42 | 302 | 437 | 332 | 304 | 181 | 92 |
| -42 | -89 | 510 | 1018 | 560 | 448 | 69 | -307 | -703 | -1100 | -1336 | -1055 | -922 | -632 | -357 | -64 | 220 | 499 | 808 | 891 |
| 820 | 952 | 1003 | 1095 | 1163 | 1030 | 894 | 755 | 564 | 414 | 218 | 77 | -132 | -252 | -485 | -135 | -249 | -228 | 136 | 213 |
| 530 | 694 | 973 | 515 | 69 | -456 | -506 | -440 | -391 | -230 | -86 | 44 | 214 | -427 | -669 | -261 | -483 | -54 | -127 | 325 |
| 180 | 757 | -1739 | -945 | -634 | -406 | 295 | 841 | 1446 | 1927 | 1119 | 557 | -267 | -1159 | -1725 | -1381 | -1362 | -983 | -720 | -339 |
| -66 | 308 | 579 | 981 | 874 | 199 | 482 | 489 | 628 | 800 | 1013 | 1155 | 1424 | 945 | -553 | -898 | -726 | -786 | -489 | -253 |
| 44 | 211 | -407 | -849 | -625 | -605 | -414 | -201 | 30 | 236 | 447 | 227 | 50 | -204 | -455 | -776 | -742 | -508 | -371 | -86 |
| 134 | 413 | 622 | 946 | 569 | -484 | -481 | -430 | -438 | -232 | -74 | 109 | 277 | 454 | 628 | 799 | 979 | 1141 | 1341 | 1340 |
| 1088 | 900 | 770 | 924 | 672 | 482 | 263 | 14 | -250 | -488 | -761 | -987 | -1283 | -1339 | -1098 | -918 | -660 | -372 | -119 | 151 |
| -273 | -798 | -1161 | -1027 | -1019 | -857 | -695 | -511 | -354 | -169 | -11 | 172 | 333 | 510 | 685 | 788 | 221 | -249 | -242 | -134 |
| -71 | 159 | 314 | 527 | 693 | 893 | 1085 | 1007 | 194 | 171 | 259 | 220 | 401 | 490 | 661 | 93 | -586 | -373 | -663 | -892 |
| -1003 | -814 | -746 | -542 | -408 | -156 | -400 | -1121 | -1001 | -889 | -841 | -569 | -428 | -199 | -789 | -628 | -686 | -911 | -803 | -648 |
| -496 | -325 | -90 | 19 | 377 | 55 | -716 | -41 | -206 | -415 | -331 | -54 | -17 | 223 | 469 | 275 | -596 | 2 | -367 | -99 |
| -137 | 62 | 67 | 236 | 262 | 417 | 452 | 575 | 16 | -467 | -1098 | -1118 | -874 | -740 | -386 | -120 | 214 | 486 | 822 | 785 |
| 610 | 507 | 250 | 267 | 480 | 612 | 859 | 781 | 664 | 543 | 370 | 203 | 37 | -95 | -116 | -281 | -440 | -620 | -572 | -430 |
| -322 | -143 | 19 | 185 | 356 | 512 | 696 | 584 | 343 | 169 | -125 | -46 | 128 | 257 | 513 | 436 | 203 | 60 | -248 | -251 |
| -128 | -61 | 105 | 209 | 165 | 150 | 99 | 48 | -17 | -17 | 17 | -48 | -97 | -23 | 77 | -39 | -35 | -132 | -84 | 57 |
| 184 | 335 | 517 | 542 | 404 | 323 | 166 | 30 | -129 | -225 | -146 | -106 | -23 | 63 | 157 | 193 | 139 | 125 | 57 | 60 |
| 106 | 156 | 204 | 277 | 122 | -101 | -251 | -181 | -161 | -82 | 5 | 78 | 20 | 104 | 184 | 261 | 338 | 240 | 164 | 68 |
| -59 | -66 | 36 | 72 | 203 | 117 | 10 | -112 | -56 | -15 | 95 | -103 | -300 | -118 | -166 | -232 | -305 | -323 | -221 | -150 |
| -36 | 72 | 177 | 87 | 32 | -73 | -109 | -38 | 17 | 35 | -55 | -46 | 42 | 98 | 195 | 285 | 382 | 474 | 554 | 444 |
| 371 | 257 | 143 | 16 | 37 | 93 | 143 | 209 | 145 | 109 | 49 | -21 | -81 | -157 | -159 | -71 | -10 | 87 | 178 | 276 |
| 350 | 251 | 173 | 73 | -54 | -107 | -87 | -97 | -113 | -126 | -148 | -135 | -71 | -29 | 41 | 99 | 167 | 226 | 294 | 351 |
| 425 | 428 | 387 | 365 | 314 | 273 | 225 | 182 | 135 | 92 | 45 | 2 | -46 | -87 | -137 | -175 | -232 | -208 | -147 | -98 |
| -29 | 45 | 54 | -6 | -10 | 25 | 44 | 87 | 16 | -24 | 19 | -81 | -127 | -212 | -206 | -126 | -72 | 19 | 97 | 86 |
| 63 | 40 | 14 | 98 | 150 | 226 | 165 | 116 | 42 | 2 | 36 | 52 | 88 | 133 | 117 | 64 | 25 | -10 | 41 | 69 |
| 95 | 62 | 51 | 16 | -14 | -34 | 8 | 32 | 73 | 114 | 98 | 57 | 28 | -14 | 48 | 52 | 33 | 25 | 4 | 6 |
| 80 | 71 | 40 | 23 | -16 | -50 | -88 | -121 | -162 | -165 | -119 | -85 | -54 | -100 | -59 | -44 | -81 | -126 | -173 | -184 |
| -117 | -87 | -12 | 36 | 117 | 91 | 10 | -51 | -70 | -55 | -81 | -124 | -169 | -113 | -19 | 57 | 170 | 139 | 87 | 40 |
| -44 | -64 | -22 | -4 | 47 | 84 | 139 | 129 | 72 | 31 | -34 | -95 | -156 | -223 | -242 | -213 | -228 | -214 | -210 | -161 |
| -129 | -82 | -39 | 0 | -70 | -114 | -191 | -219 | -153 | -109 | -39 | 33 | 107 | 157 | 66 | 15 | -82 | -114 | -53 | -45 |
| -83 | -109 | -86 | -42 | -9 | 48 | 94 | 142 | 95 | 55 | 1 | -42 | 33 | 52 | 0 | -27 | -77 | -132 | -183 | -236 |
| -221 | -198 | -175 | -139 | -106 | -79 | -91 | -91 | -67 | -52 | -31 | -6 | 4 | -10 | -21 | -28 | 20 | 58 | 9 | 17 |
| 104 | 168 | 190 | 163 | 161 | 126 | 103 | 72 | 48 | 56 | 62 | 74 | 52 | 22 | -9 | -44 | -83 | -77 | -56 | -41 |
| -13 | 8 | -7 | -18 | -35 | -54 | -74 | -92 | -113 | -119 | -93 | -78 | -48 | -57 | -85 | -104 | -136 | -167 | -177 | -133 |
| -107 | -62 | -20 | 20 | -3 | -14 | -37 | -62 | -88 | -114 | -129 | -95 | -76 | -39 | -23 | -46 | -59 | -85 | -90 | -84 |
| -86 | -93 | -105 | -82 | -47 | -18 | 25 | 59 | 104 | 111 | 91 | 73 | 78 | 123 | 157 | 181 | 152 | 143 | 111 | 95 |
| 110 | 118 | 103 | 91 | 76 | 58 | 40 | 28 | 32 | 31 | 33 | 16 | 5 | -12 | -28 | -45 | -62 | -71 | -37 | -12 |
| 8 | -14 | -25 | -48 | -71 | -94 | -119 | -117 | -90 | -74 | -45 | -52 | -48 | -54 | -56 | -64 | -66 | -75 | -64 | -50 |
| -33 | -33 | -45 | -52 | -67 | -77 | -66 | -56 | -42 | -35 | -45 | -50 | -61 | -71 | -81 | -92 | -70 | -39 | -12 | 23 |
| 12 | 2 | -3 | 15 | 22 | 45 | 35 | 10 | -12 | -40 | -74 | -74 | -50 | -36 | -9 | 15 | 41 | 63 | 36 | 9 |

| | | | | | | | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| -20 | -60 | -78 | -72 | -74 | -66 | -60 | -59 | -67 | -61 | -53 | -47 | -37 | -42 | -49 | -57 | -56 | -30 | -12 | 15 |
| 39 | 67 | 67 | 59 | 62 | 65 | 67 | 70 | 59 | 52 | 41 | 30 | 18 | 11 | 23 | 30 | 42 | 54 | 66 | 78 |
| 88 | 70 | 57 | 38 | 18 | -2 | -21 | -43 | -56 | -37 | -22 | -4 | 21 | 10 | -12 | -32 | -57 | -86 | -81 | -59 |
| -45 | -18 | 4 | 31 | 47 | 29 | 18 | 0 | -20 | -39 | -61 | -68 | -63 | -64 | -56 | -60 | -69 | -78 | -88 | -101 |
| -101 | -85 | -76 | -60 | -60 | -60 | -54 | -46 | -41 | -31 | -24 | -16 | -20 | -25 | -30 | -38 | -42 | -32 | -26 | -17 |
| -7 | 3 | 13 | 22 | 32 | 42 | 51 | 49 | 46 | 44 | 37 | 43 | 54 | 63 | 75 | 88 | 88 | 70 | 75 | 79 |
| 84 | 78 | 68 | 59 | 46 | 35 | 23 | 11 | -1 | -13 | -25 | -37 | -50 | -56 | -42 | -35 | -21 | -8 | 6 | 19 |
| 33 | 46 | 60 | 73 | 88 | 100 | 114 | 103 | 92 | 79 | 74 | 76 | 70 | 56 | 44 | 30 | 13 | 8 | 23 | 32 |
| 48 | 63 | 77 | 73 | 74 | 84 | 92 | 100 | 88 | 77 | 63 | 47 | 30 | 29 | 36 | 40 | 48 | 40 | 35 | 44 |
| 51 | 60 | 71 | 80 | 92 | 92 | 72 | 57 | 36 | 15 | 11 | 11 | 10 | 11 | 3 | -4 | -7 | -1 | 5 | 0 |
| -12 | -20 | -34 | -45 | -37 | -31 | -21 | -11 | 1 | -1 | -8 | -12 | -6 | -2 | 5 | 12 | 20 | 27 | 35 | 31 |
| 24 | 21 | 32 | 38 | 49 | 39 | 18 | 19 | 28 | 31 | 46 | 42 | 24 | 8 | 18 | 33 | 48 | 68 | 89 | 107 |
| 130 | 128 | 109 | 97 | 93 | 96 | 79 | 72 | 58 | 47 | 31 | 40 | 56 | 72 | 79 | 59 | 48 | 27 | 8 | -13 |
| -32 | -51 | -39 | -29 | -15 | 2 | 18 | 35 | 46 | 43 | 44 | 40 | 37 | 28 | 15 | 2 | -5 | 5 | 9 | 17 |
| 12 | 37 | 51 | 74 | 66 | 50 | 35 | 13 | -1 | 2 | 0 | 3 | 6 | 7 | -12 | -27 | -46 | -65 | -62 | -54 |
| -49 | -37 | -28 | -16 | -17 | -30 | -38 | -53 | -66 | -81 | -89 | -81 | -78 | -69 | -65 | -68 | -69 | -72 | -62 | -53 |
| -43 | -31 | -20 | -7 | -7 | -12 | -15 | -22 | -28 | -31 | -18 | -10 | 3 | 15 | 27 | 24 | 18 | 13 | 5 | 3 |
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| -6 | 5 | 17 | 12 | -1 | -11 | -26 | -40 | -42 | -38 | -36 | -30 | -27 | -33 | -41 | -49 | -59 | -68 | -77 | -75 |
| -72 | -69 | -64 | -61 | -66 | -68 | -73 | -72 | -65 | -62 | -65 | -65 | -62 | -61 | -65 | -64 | -62 | -62 | -60 | -60 |
| -64 | -66 | -69 | -63 | -59 | -54 | -48 | -43 | -33 | -21 | -10 | 3 | 16 | 21 | 20 | 23 | 28 | 33 | 38 | 44 |
| 50 | 52 | 43 | 38 | 29 | 20 | 12 | 18 | 20 | 26 | 32 | 38 | 44 | 50 | 56 | 56 | 55 | 53 | 53 | 58 |
| 62 | 67 | 72 | 77 | 82 | 87 | 93 | 93 | 80 | 71 | 57 | 44 | 30 | 17 | 3 | -11 | -24 | -38 | -43 | -47 |
| -51 | -53 | -52 | -50 | -49 | -46 | -44 | -42 | -39 | -29 | -23 | -12 | -13 | -17 | -19 | -25 | -30 | -31 | -34 | -35 |
| -37 | -34 | -19 | -6 | -4 | -7 | -8 | -11 | -9 | -10 | -8 | -7 | -7 | -8 | -8 | -9 | -10 | -8 | 0 | 6 |
| 14 | 21 | 30 | 37 | 44 | 38 | 34 | 27 | 19 | 12 | 13 | 14 | 16 | 19 | 19 | 16 | 13 | 12 | 13 | 13 |
| 11 | 7 | 5 | 6 | 7 | 8 | 8 | 7 | 9 | 18 | 25 | 34 | 44 | 52 | 63 | 61 | 54 | 50 | 41 | 33 |
| 28 | 31 | 31 | 35 | 37 | 41 | 37 | 27 | 19 | 16 | -12 | 8 | -3 | -5 | -9 | -12 | -18 | -28 | -31 | -33 |
| -35 | -45 | -45 | -52 | -57 | -54 | -54 | -51 | -47 | -34 | -23 | -11 | 2 | 15 | 27 | 14 | 4 | -10 | -25 | -42 |
| -47 | -41 | -38 | -31 | -24 | -17 | -10 | -4 | 2 | 8 | 16 | 17 | 9 | 5 | -3 | -10 | -19 | -25 | -34 | -35 |
| -26 | -21 | -16 | -11 | -9 | -6 | -6 | -6 | -5 | -5 | -2 | 2 | 7 | 3 | -8 | -15 | -27 | -34 | -36 | -39 |
| -41 | -42 | -43 | -42 | -43 | -43 | -42 | -42 | -42 | -45 | -47 | -50 | -54 | -55 | -55 | -55 | -55 | -56 | -57 | -58 |
| -60 | -62 | -63 | -64 | -62 | -60 | -57 | -56 | -54 | -55 | -60 | -63 | -70 | -72 | -62 | -59 | -53 | -47 | -42 | -37 |
| -29 | -9 | 4 | 12 | 29 | 36 | 44 | 42 | 35 | 29 | 21 | 13 | 5 | -4 | -10 | 3 | 6 | 18 | 25 | 58 |
| 78 | 29 | 4 | -39 | -32 | -23 | -6 | 17 | 28 | 5 | -8 | -32 | -50 | -15 | 9 | 42 | 64 | 84 | 69 | 61 |
| 41 | 23 | 4 | -4 | -15 | -23 | -31 | -15 | 4 | 0 | 1 | -2 | -2 | -1 | 6 | 8 | 19 | 21 | 58 | 54 |
| 40 | 35 | 30 | 31 | 38 | 41 | 42 | 44 | 44 | 41 | 37 | 33 | 28 | 24 | 20 | 20 | 21 | 21 | 19 | 17 |
| 17 | 20 | 23 | 24 | 23 | 22 | 20 | 18 | 12 | 9 | 3 | 3 | 10 | 15 | 17 | 16 | 16 | 14 | 13 | 18 |
| 25 | 32 | 48 | 59 | 77 | 72 | 54 | 41 | 20 | 2 | -19 | -29 | -13 | -8 | -1 | 9 | 10 | 6 | 5 | -1 |
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| 12 | 4 | -7 | -18 | -28 | -16 | -2 | 7 | 8 | 9 | 5 | 1 | -4 | -9 | -22 | -35 | -27 | -9 | 2 | 21 |
| 31 | 35 | 37 | 34 | 32 | 28 | 21 | 13 | 8 | 1 | -2 | -2 | -3 | -2 | -2 | -2 | -2 | -3 | -3 | -4 |
| -7 | -9 | -12 | -15 | -17 | -19 | -18 | -17 | -16 | -21 | -25 | -30 | -35 | -37 | -39 | -35 | -32 | -18 | -5 | 1 |
| 10 | 15 | 14 | 15 | 13 | 13 | 14 | 14 | 15 | 16 | 15 | 15 | 14 | 13 | 10 | 9 | 5 | 13 | 21 | 27 |
| 33 | 37 | 42 | 45 | 46 | 49 | 43 | 35 | 27 | 18 | 7 | 10 | 15 | 21 | 22 | 23 | 12 | -8 | -23 | -36 |
| -46 | -50 | -52 | -54 | -55 | -56 | -57 | -58 | -59 | -60 | -60 | -54 | -49 | -45 | -40 | -36 | -34 | -32 | -29 | -21 |
| -15 | -7 | -3 | -4 | -3 | -3 | -3 | -3 | -3 | -6 | -8 | -10 | -12 | -12 | -8 | -6 | -5 | -5 | -6 | -8 |
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| 19 | 13 | 8 | 5 | 2 | 3 | 5 | 7 | 10 | 11 | 13 | 13 | 12 | 11 | 8 | 6 | 3 | 1 | -1 | -29 |
| -4 | 1 | 5 | 14 | 28 | 28 | 28 | 28 | 25 | 26 | 26 | 27 | 21 | 11 | 2 | -7 | -11 | -18 | -22 | -33 |
| -24 | -12 | -4 | 9 | 21 | 33 | 36 | 39 | 42 | 42 | 41 | 41 | 41 | 40 | 37 | 35 | 31 | 27 | 23 | 18 |
| 15 | 11 | 8 | 4 | 0 | -9 | -17 | -26 | -30 | -28 | -28 | -26 | -26 | -26 | -25 | -18 | -13 | -6 | 1 | 7 |
| 6 | 6 | 5 | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | -3 | -6 | -9 | -11 | -13 | -16 | -18 |
| -21 | -24 | -26 | -29 | -30 | -24 | -20 | -15 | -10 | -5 | -3 | 0 | 0 | -1 | -1 | -2 | -2 | -2 | -1 | -1 |
| -2 | -2 | -4 | -6 | -9 | -10 | -15 | -21 | -28 | -27 | -21 | -17 | -12 | -8 | -3 | 0 | 0 | -1 | -1 | -1 |

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -2 | -4 | -6 | -8 | -6 | -4 | -3 | -3 | -2 | -2 | -4 | -5 | -6 | -7 | -7 | -2 | 1 | 8 | 16 |
| 23 | 27 | 28 | 26 | 25 | 22 | 20 | 18 | 17 | 17 | 17 | 20 | 18 | 17 | 16 | 15 | 17 | 20 | 24 |
| 30 | 35 | 40 | 43 | 46 | 43 | 40 | 38 | 37 | 35 | 35 | 29 | 26 | 21 | 13 | 9 | 5 | 1 | -3 |
| -9 | -14 | -19 | -24 | -28 | -32 | -35 | -38 | -41 | -40 | -40 | -36 | -34 | -33 | -32 | -32 | -31 | -32 | -31 |
| -33 | -24 | -24 | -18 | -16 | -14 | -9 | -5 | -2 | 1 | 1 | 0 | -2 | -5 | -9 | -12 | -14 | -16 | -18 |
| -20 | -22 | -20 | -20 | -16 | -12 | -9 | -8 | -7 | -8 | -8 | -11 | -12 | -13 | -11 | -9 | -7 | -5 | -6 |
| -6 | -7 | -6 | -4 | -2 | -1 | 1 | 0 | -2 | -3 | -3 | -6 | -7 | -5 | -1 | 3 | 6 | 5 | 5 |
| 3 | 2 | 5 | 9 | 14 | 20 | 26 | 31 | 33 | 35 | 35 | 27 | 23 | 26 | 29 | 32 | 29 | 27 | 23 |
| 19 | 12 | 6 | -1 | -1 | 1 | 5 | 9 | 13 | 14 | 14 | 9 | 3 | -8 | -17 | -29 | -36 | -37 | -29 |
| -12 | -12 | -8 | -6 | -5 | -5 | -6 | -8 | -10 | -13 | -13 | -17 | -19 | -21 | -25 | -28 | -24 | -20 | -12 |
| 0 | 8 | 5 | 6 | 2 | 3 | 5 | 9 | 15 | 19 | 19 | 27 | 22 | 19 | 15 | 11 | 8 | 9 | 9 |
| 10 | 11 | 12 | 13 | 15 | 17 | 17 | 17 | 18 | 17 | 17 | 20 | 20 | 20 | 20 | 20 | 18 | 16 | 14 |
| 9 | 4 | 0 | -3 | -6 | -8 | -9 | -6 | -5 | 1 | 1 | 15 | 19 | 19 | 19 | 17 | 14 | 11 | 6 |
| 2 | -3 | -9 | -14 | -19 | -21 | -24 | -25 | -21 | -18 | -18 | -16 | -21 | -25 | -24 | -20 | -19 | -18 | -17 |
| -17 | -15 | -17 | -21 | -25 | -29 | -31 | -33 | -34 | -37 | -37 | -21 | -15 | -12 | -13 | -17 | -22 | -27 | -31 |
| -35 | -33 | -29 | -26 | -22 | -21 | -18 | -17 | -15 | -14 | -14 | -19 | -24 | -27 | -29 | -32 | -35 | -36 | -37 |
| -39 | -40 | -39 | -39 | -38 | -36 | -32 | -29 | -14 | -2 | -2 | 23 | 23 | 24 | 23 | 23 | 23 | 24 | 24 |
| 25 | 25 | 21 | 18 | 14 | 10 | 5 | 3 | 5 | 6 | 6 | 7 | 5 | 3 | 0 | -1 | 1 | 2 | 4 |
| 6 | 7 | 9 | 9 | 11 | 11 | 13 | 18 | 23 | 29 | 29 | 29 | 25 | 22 | 21 | 25 | 32 | 35 | 42 |
| 37 | 23 | 11 | 4 | 11 | 13 | 20 | 21 | 17 | 8 | 8 | 4 | -6 | -8 | -24 | -24 | -12 | -8 | -3 |
| -3 | -3 | -8 | -12 | -26 | -29 | -7 | 7 | 4 | 1 | 1 | -19 | -24 | -19 | -17 | -14 | -12 | -10 | -10 |
| -10 | -10 | -10 | -10 | -4 | 2 | 10 | 18 | 28 | 37 | 37 | 45 | 45 | 45 | 45 | 45 | 45 | 44 | 40 |
| 37 | 32 | 27 | 23 | 23 | 23 | 23 | 25 | 29 | 32 | 32 | 31 | 27 | 23 | 18 | 13 | 9 | 4 | -1 |
| -6 | -9 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -19 | -19 | -24 | -29 | -26 | -22 | -21 | -24 | -26 | -30 |
| -30 | -29 | -29 | -26 | -21 | -19 | -15 | -12 | -10 | -10 | -10 | -8 | -9 | -8 | -7 | -6 | -6 | -9 | -11 |
| -14 | -22 | -30 | -34 | -37 | -36 | -30 | -25 | -17 | -11 | -11 | -2 | 7 | 12 | 14 | 16 | 18 | 21 | 20 |
| 20 | 19 | 18 | 17 | 16 | 15 | 14 | 14 | 13 | 12 | 12 | 13 | 15 | 18 | 22 | 25 | 29 | 24 | 20 |
| 15 | 12 | 8 | 5 | 2 | 0 | -2 | -4 | -7 | -9 | -9 | -2 | 0 | 2 | -1 | -4 | -5 | -8 | -10 |
| -11 | -13 | -13 | -9 | -5 | -1 | 0 | 2 | 3 | 3 | 3 | 4 | 5 | 7 | 11 | 15 | 15 | 12 | 10 |
| 7 | 4 | 0 | -1 | 0 | 0 | 1 | -2 | -6 | -10 | -10 | -24 | -29 | -18 | -5 | 1 | 4 | 10 | 6 |
| 1 | -2 | -5 | -8 | -9 | -10 | -10 | -9 | -8 | -7 | -7 | -2 | -2 | -1 | -2 | -2 | -3 | -4 | -7 |
| -9 | -26 | -38 | -55 | -56 | -59 | -49 | -38 | -25 | -28 | -28 | -31 | -22 | -14 | -12 | -8 | -3 | 1 | 5 |
| 8 | 13 | 17 | 16 | 17 | 16 | 19 | 22 | 26 | 30 | 30 | 37 | 37 | 37 | 38 | 40 | 38 | 37 | 36 |
| 34 | 33 | 33 | 32 | 32 | 28 | 23 | 17 | 11 | 5 | 5 | -1 | -13 | -15 | -17 | -17 | -17 | -18 | -18 |
| -18 | -17 | -15 | -14 | -12 | -11 | -9 | -8 | -8 | -8 | -8 | -4 | -2 | 1 | 3 | 5 | 2 | 0 | -2 |
| -2 | -3 | -3 | -4 | -5 | -6 | -6 | -7 | -5 | -2 | -2 | 9 | 13 | 14 | 16 | 17 | 17 | 17 | 17 |
| 18 | 19 | 21 | 22 | 23 | 24 | 24 | 23 | 22 | 20 | 20 | 17 | 12 | 11 | 11 | 8 | 5 | 1 | -1 |
| 0 | 4 | 9 | 13 | 17 | 19 | 18 | 18 | 16 | 16 | 16 | -4 | 1 | 2 | 2 | -1 | -3 | -6 | -2 |
| 12 | 10 | 8 | 5 | 3 | 0 | -2 | -4 | -4 | -2 | -2 | 13 | 12 | 10 | 11 | 12 | 13 | 14 | 12 |
| -18 | -18 | -19 | -19 | -19 | -19 | -20 | -20 | -21 | -21 | -21 | -18 | -15 | -15 | -20 | -11 | -7 | -11 | -15 |
| -22 | -22 | -21 | -20 | -18 | -17 | -16 | -17 | -17 | -18 | -18 | -12 | -11 | -11 | -11 | -13 | -13 | -15 | -17 |
| -19 | -19 | -15 | -14 | -12 | -11 | -9 | -6 | -4 | -1 | -1 | -37 | -38 | -38 | -38 | -36 | -31 | -27 | -22 |
| 35 | 35 | 36 | 37 | 41 | 44 | 46 | 48 | 51 | 50 | 50 | 45 | 43 | 41 | 25 | 30 | 35 | 35 | 35 |
| 25 | 23 | 17 | 19 | 17 | 14 | 12 | 9 | 7 | 5 | 5 | 1 | 1 | 1 | 1 | 0 | -2 | -3 | -5 |
| -7 | -10 | -11 | -12 | -13 | -11 | -11 | -10 | -10 | -9 | -9 | -17 | -19 | -21 | -24 | -25 | -23 | -23 | -21 |
| -18 | -16 | -13 | -10 | -7 | -4 | -1 | 1 | 2 | 2 | 2 | -6 | -8 | -10 | -11 | -10 | -10 | -9 | -7 |
| -6 | -5 | -4 | -2 | -1 | -1 | 2 | 4 | 3 | 3 | 3 | 1 | 3 | 5 | 6 | 8 | 6 | 1 | -1 |
| -5 | -8 | -11 | -15 | -17 | -18 | -20 | -21 | -21 | -21 | -21 | -19 | -17 | -15 | -11 | -8 | -5 | -2 | 1 |
| 3 | 5 | 5 | 4 | 3 | 1 | 0 | -1 | -1 | -1 | -1 | -3 | -4 | -7 | -10 | -14 | -16 | -13 | -9 |
| -6 | -2 | 1 | 4 | 7 | 11 | 15 | 18 | 21 | 23 | 23 | 27 | 28 | 28 | 29 | 30 | 31 | 33 | 34 |
| 35 | 32 | 31 | 28 | 26 | 23 | 21 | 18 | 17 | 18 | 18 | 15 | 13 | 11 | 10 | 9 | 7 | 6 | 5 |
| 4 | 4 | 3 | 5 | 6 | 8 | 10 | 11 | 12 | 12 | 12 | 13 | 12 | 11 | 11 | 10 | 8 | 6 | 3 |

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -4 | -5 | -6 | -7 | -8 | -8 | -9 | -10 | -11 | -11 | -12 | -14 | -15 | -16 | -16 | -17 | -18 | -18 | -18 |
| -15 | -14 | -11 | -8 | -7 | -7 | -6 | -5 | -7 | -7 | -9 | -9 | -10 | -10 | -11 | -11 | -11 | -10 | -10 |
| -9 | -8 | -6 | -5 | -5 | -6 | -6 | -6 | -7 | -7 | -8 | -8 | -7 | -6 | -5 | -5 | -3 | -2 | -1 |
| -4 | -4 | -4 | -4 | -5 | -5 | -5 | -6 | -6 | -6 | -7 | -7 | -7 | -8 | -8 | -8 | -6 | -5 | -4 |
| -8 | -9 | -9 | -10 | -10 | -11 | -12 | -13 | -13 | -14 | -14 | -12 | -11 | -9 | -8 | -4 | -4 | -2 | 0 |
| 19 | 21 | 22 | 24 | 24 | 24 | 24 | 24 | 23 | 23 | 22 | 22 | 22 | 21 | 13 | 14 | 14 | 16 | 17 |
| 16 | 15 | 15 | 14 | 10 | 8 | 1 | 4 | 5 | 5 | 6 | 5 | 5 | 4 | 21 | 20 | 20 | 18 | 17 |
| 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 4 | 3 | 2 | 1 | 0 |
| -3 | -3 | -2 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 2 | 0 | -2 | -3 | -3 | -3 |
| -8 | -9 | -10 | -11 | -13 | -14 | -14 | -15 | -17 | -18 | -19 | -16 | -14 | -12 | -10 | -7 | -6 | -5 | -7 |
| -1 | -2 | -2 | -3 | -3 | -4 | -4 | -4 | -4 | -4 | -5 | -6 | -7 | -8 | -9 | -10 | -10 | -11 | -11 |
| -12 | -12 | -12 | -12 | -12 | -12 | -12 | -12 | -12 | -11 | -10 | -9 | -7 | -6 | -5 | -4 | -3 | -2 | -1 |
| -1 | -1 | 0 | -1 | -2 | -2 | -2 | -2 | -2 | -4 | -4 | -3 | -2 | -2 | 0 | 0 | 0 | -1 | -1 |
| -1 | 1 | 1 | 0 | -1 | -2 | -2 | -2 | -4 | -5 | -5 | -5 | -4 | -4 | 2 | 2 | 2 | 2 | 1 |
| -4 | -3 | -2 | -2 | -4 | -5 | -5 | -6 | -8 | -9 | -9 | -6 | -5 | -1 | -1 | -2 | -2 | -1 | -2 |
| 1 | 3 | 5 | 7 | 10 | 10 | 10 | 11 | 10 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 14 | 13 | 13 |
| 12 | 12 | 11 | 9 | 6 | 6 | 6 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 |
| 7 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 12 | 12 | 12 | 12 | 11 | 10 | 9 | 7 | 6 |
| 5 | 3 | 2 | 1 | 0 | -1 | -1 | -2 | -2 | -3 | -3 | -3 | -3 | -3 | -3 | -2 | -2 | -1 | -1 |
| -1 | 0 | 0 | 0 | -3 | -4 | -4 | -6 | -7 | -8 | -7 | -7 | -6 | -6 | -6 | -6 | -7 | -7 | -8 |
| -8 | -7 | -6 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 3 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 11 | 11 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 6 | 5 |
| 5 | 4 | 3 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 1 | -2 | -2 | -2 | -2 | -3 | -3 | -4 | -5 | -5 | -5 | -5 | -4 | -4 | -4 | -3 |
| -3 | -2 | -2 | -2 | -1 | -1 | -1 | -1 | -1 | -1 | 0 | 0 | 0 | 1 | 1 | -1 | -1 | -2 | -3 |
| -4 | -4 | -5 | -6 | -6 | -7 | -7 | -8 | -8 | -8 | -9 | -10 | -10 | -10 | -10 | -10 | -10 | -10 | -11 |
| -11 | -12 | -12 | -12 | -13 | -14 | -14 | -14 | -15 | -15 | -15 | -15 | -15 | -15 | -13 | -12 | -11 | -10 | -8 |
| -7 | -7 | -6 | -6 | -6 | -7 | -7 | -7 | -7 | -7 | -7 | -8 | -8 | -8 | -10 | -10 | -10 | -9 | -8 |
| 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 9 | 8 | 6 | 4 | 3 | 2 | 1 | 0 |
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| -5 | -4 | -4 | -4 | -2 | -2 | -2 | -2 | -1 | -1 | 0 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 9 | 8 | 7 | 11 | 12 | 12 | 12 | 13 | 13 | 13 | 12 | 11 | 11 | 11 | 10 | 10 | 10 | 9 |

IIV315 33.003.0 LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
STATION NO. 131 PUBLIC UTILITIES BLDG., LONG BEACH, CAL.
INSTR PERIOD = 0.105 SEC DAMPING = 0.494 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -156.0 CM/SEC/SEC AT 2.68 SEC VELO = 16.5 CM/SEC AT 1.18 SEC DISP = 11.9 CM AT 6.28 SEC

| 4949 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC. | | | | | | | | | |
|--|-------|-------|-------|-------|----------------------------|------|-------|-------|-------|
| INITIAL VELO = -3.91311 CM/SEC | | | | | INITIAL DISP = -0.84754 CM | | | | |
| 383 | 273 | 197 | 147 | 59 | 73 | 218 | 329 | 111 | -172 |
| 19 | 161 | 174 | 320 | 424 | 551 | 669 | 788 | 886 | 657 |
| 486 | 269 | 168 | -88 | -338 | -610 | -418 | -201 | 48 | 350 |
| -1190 | -1284 | -1090 | -1154 | -1129 | -1116 | -897 | -760 | -675 | -764 |
| -1491 | -763 | -80 | 813 | 1021 | 792 | 755 | 416 | 174 | -118 |
| 909 | 1139 | 804 | 623 | 268 | 137 | 425 | 633 | 866 | 737 |
| -1293 | -446 | 1231 | 446 | 851 | 531 | 370 | 53 | -137 | -427 |
| 463 | 243 | -94 | -302 | -660 | -564 | -379 | -194 | 56 | 272 |
| -1520 | -829 | -1067 | -862 | -587 | -239 | 28 | 364 | 654 | 618 |
| 562 | 410 | 269 | 126 | -20 | -159 | -301 | -188 | 1 | 149 |
| -69 | 254 | 598 | 712 | 113 | -248 | -905 | -968 | -792 | -703 |
| 303 | 232 | 58 | 198 | 218 | 322 | -692 | -341 | -375 | -295 |
| 409 | 716 | 1002 | 1088 | 527 | 93 | -50 | 266 | 320 | 729 |
| -273 | -51 | 261 | 170 | 100 | -18 | -168 | -320 | -466 | -619 |
| 12 | -399 | 19 | 65 | 374 | 478 | 766 | 676 | 457 | 269 |
| -8 | 212 | 224 | -716 | -346 | -435 | -349 | -209 | -220 | -367 |
| 301 | 630 | -227 | -615 | -280 | -545 | -311 | -89 | -137 | -89 |
| 945 | 1181 | 505 | 154 | -581 | -764 | -580 | -506 | -255 | -24 |
| 423 | 657 | 316 | 124 | -242 | -228 | -178 | -206 | -265 | -290 |
| -53 | 45 | 173 | 306 | 377 | 316 | 293 | 227 | 166 | 99 |
| -241 | -262 | -210 | -158 | -98 | -32 | 36 | 100 | 169 | 232 |
| -522 | -562 | -497 | -471 | -395 | -334 | -260 | -196 | -124 | -59 |
| -108 | -159 | -144 | -52 | 0 | 100 | 83 | 70 | 44 | 61 |
| 84 | 92 | 38 | -1 | -54 | -107 | -171 | -165 | -96 | -53 |
| -58 | -64 | -9 | 28 | 83 | 141 | 164 | 84 | 34 | -51 |
| 81 | 59 | 19 | -19 | -58 | -98 | -135 | -179 | -174 | -123 |
| 313 | 277 | 218 | 156 | 94 | 31 | -27 | -98 | -93 | 33 |
| 221 | 266 | 310 | 296 | 243 | 209 | 145 | 94 | 33 | -20 |
| 174 | 156 | 134 | 109 | 89 | 65 | 101 | 133 | 178 | 191 |
| -244 | -203 | -171 | -115 | -158 | -228 | -288 | -370 | -343 | -314 |
| 56 | 6 | -39 | -89 | -45 | 10 | -9 | -6 | 11 | 49 |
| -127 | -135 | -99 | -86 | -58 | -35 | -18 | -39 | -22 | -8 |
| 163 | 209 | 257 | 230 | 187 | 149 | 93 | 41 | -8 | -5 |
| -117 | -165 | -161 | -135 | -131 | -155 | -178 | -162 | -143 | -125 |
| -167 | -201 | -233 | -267 | -294 | -263 | -236 | -202 | -162 | -123 |
| 37 | 82 | 136 | 183 | 237 | 280 | 268 | 261 | 286 | 294 |
| 29 | 34 | 35 | 16 | -6 | -27 | -53 | -20 | 12 | 50 |
| -42 | -14 | 2 | 35 | 61 | 92 | 93 | 92 | 94 | 102 |
| -1 | -21 | -40 | -61 | -77 | -43 | -12 | 25 | 67 | 110 |
| -24 | -31 | -13 | -11 | 2 | -1 | -5 | -11 | -16 | -19 |
| 89 | 59 | 26 | 3 | -1 | -9 | -12 | -15 | -16 | -27 |
| -99 | -150 | -191 | -246 | -219 | -192 | -159 | -116 | -75 | -33 |
| -8 | -30 | -47 | -69 | -88 | -110 | -129 | -153 | -152 | -142 |
| -133 | -144 | -138 | -128 | -119 | -106 | -94 | -81 | -69 | -56 |
| -366 | -123 | 99 | 318 | -12 | -422 | -806 | -924 | -721 | -591 |
| -33 | -241 | -541 | -284 | 238 | 565 | 587 | 631 | 448 | 189 |
| 448 | 678 | 856 | 942 | -187 | 662 | 915 | 788 | 705 | 562 |
| -361 | 335 | -124 | -921 | -988 | -672 | -476 | -321 | -92 | 94 |
| 620 | 335 | 48 | 335 | -848 | -392 | -653 | -969 | -968 | -702 |
| -621 | 402 | 566 | 740 | 781 | 665 | 993 | 718 | 517 | 347 |
| 418 | 576 | 738 | 1123 | 740 | -639 | -911 | -1138 | -1405 | -1560 |
| -15 | 224 | 706 | 704 | 634 | 68 | -41 | -44 | 144 | 203 |
| -76 | -546 | -838 | -545 | -371 | 345 | 207 | -118 | -367 | -478 |
| 738 | 730 | 654 | 563 | 468 | 397 | 574 | 831 | 613 | 234 |
| -600 | -705 | -395 | -167 | 166 | -447 | -221 | 2 | 254 | 450 |
| -142 | -337 | -703 | -53 | -596 | -120 | 18 | 232 | -165 | -1167 |
| 742 | 780 | 1379 | 53 | -141 | 685 | 550 | 429 | 236 | 43 |
| -429 | -720 | -337 | -374 | -141 | -529 | -266 | -140 | 205 | 342 |
| -222 | -125 | 34 | 100 | 302 | 6 | -263 | -489 | -460 | -288 |
| 28 | -79 | -117 | 152 | 573 | -416 | -595 | -532 | -444 | -360 |
| -531 | -645 | -371 | -302 | 92 | 49 | -16 | -49 | -138 | -85 |
| -252 | -168 | -154 | -247 | -156 | 209 | 457 | 668 | 963 | 655 |
| -246 | -229 | -231 | -213 | -236 | -369 | -427 | -473 | -384 | -338 |
| 98 | -24 | -146 | -270 | -388 | 36 | -30 | -94 | -157 | -227 |
| -17 | -66 | -52 | -28 | -60 | 300 | 366 | 416 | 296 | 215 |
| 241 | 198 | 166 | 111 | 70 | 10 | 79 | 130 | 72 | 43 |
| 92 | 65 | 33 | 5 | -25 | 97 | 125 | 172 | 208 | 258 |
| 18 | 52 | 82 | 107 | 120 | 25 | 92 | 158 | 127 | 122 |
| 175 | 225 | 280 | 332 | 375 | -120 | -76 | -34 | 15 | 75 |
| 304 | 307 | 273 | 260 | 212 | -92 | -34 | 14 | 71 | 120 |
| 25 | 88 | 130 | 194 | 181 | 128 | 198 | 154 | 212 | 252 |
| -75 | -122 | -171 | -218 | -266 | -78 | -16 | 75 | 48 | 22 |
| 51 | 124 | 169 | 125 | 101 | 146 | 117 | 68 | 21 | -27 |
| -24 | -87 | -154 | -146 | -117 | -280 | -218 | -151 | -86 | -15 |
| -30 | -3 | 32 | 67 | 116 | 77 | 122 | 145 | 82 | 40 |
| -16 | -23 | -77 | -114 | -152 | 9 | 26 | 50 | 27 | 1 |
| -68 | -51 | -83 | -103 | -135 | -7 | -3 | 1 | -31 | -36 |
| -18 | -78 | -90 | -42 | -20 | -96 | -109 | -132 | -109 | -91 |
| 176 | 139 | 102 | 66 | 30 | -85 | -44 | -8 | 36 | 49 |
| 63 | 39 | 9 | 15 | -48 | 318 | 310 | 275 | 250 | 212 |
| 61 | 40 | 34 | 35 | 13 | 93 | 138 | 132 | 110 | 95 |
| -2 | -34 | -61 | -38 | -26 | 106 | 116 | 112 | 94 | 80 |
| 62 | 129 | 160 | 133 | 120 | 135 | 72 | 30 | 27 | 39 |
| -103 | -100 | -89 | -81 | -68 | -25 | -38 | -60 | -39 | 20 |
| -46 | -63 | -82 | -103 | -112 | -46 | -63 | -82 | -103 | -112 |
| 8 | 52 | 75 | 61 | 60 | -135 | -121 | -109 | -96 | -86 |
| -48 | -60 | -67 | -79 | -93 | -48 | -60 | -67 | -79 | -93 |

| | | | | | | | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| -31 | -17 | -1 | 10 | -15 | 7 | 32 | 51 | 80 | 47 | 61 | 82 | 92 | 116 | 135 | 156 | 177 | 191 | 170 | 156 |
| 136 | 110 | 111 | 130 | 138 | 163 | 159 | 127 | 108 | 115 | 113 | 112 | 79 | 89 | 107 | 121 | 113 | 89 | 73 | 44 |
| 20 | -7 | -32 | -58 | -84 | -106 | -87 | -74 | -55 | -33 | -35 | -40 | -40 | -24 | -12 | 6 | 22 | 42 | 57 | 78 |
| 67 | 46 | 28 | 1 | -22 | -49 | -52 | -10 | 15 | 62 | 55 | 32 | 13 | -13 | 10 | 11 | 16 | 45 | 63 | 84 |
| 61 | 47 | 22 | -1 | -30 | -33 | -18 | -12 | 6 | 20 | 36 | 11 | -9 | -36 | -64 | -91 | -99 | -57 | -35 | -10 |
| 17 | 41 | 69 | 75 | 52 | 38 | 12 | -11 | -37 | -60 | -86 | -90 | -85 | -84 | -76 | -83 | -99 | -87 | -67 | -54 |
| -27 | -28 | -38 | -45 | -58 | -70 | -67 | -61 | -56 | -65 | -75 | -61 | -57 | -47 | -36 | -25 | -13 | -13 | -25 | -32 |
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| -15 | -31 | -44 | -41 | -40 | -42 | -31 | -31 | -40 | -46 | -42 | -34 | -28 | -18 | -23 | -29 | -23 | 1 | 17 | 43 |
| 65 | 92 | 101 | 89 | 85 | 87 | 93 | 97 | 107 | 101 | 87 | 76 | 61 | 69 | 79 | 88 | 105 | 98 | 76 | 62 |
| 38 | 17 | -3 | -6 | -11 | -31 | -55 | -79 | -97 | -94 | -97 | -92 | -90 | -103 | -102 | -88 | -79 | -64 | -50 | -35 |
| -21 | -6 | 8 | 23 | 38 | 47 | 36 | 30 | 18 | 7 | -5 | -16 | -30 | -28 | -10 | 2 | 21 | 41 | 50 | 41 |
| 37 | 28 | 18 | 17 | 25 | 27 | 38 | 32 | 22 | 12 | 0 | -14 | -14 | -5 | -1 | 11 | 6 | -2 | 15 | 21 |
| 35 | 39 | 32 | 31 | 34 | 37 | 37 | 30 | 21 | 11 | 1 | -11 | -14 | -13 | -1 | -10 | -10 | -18 | -24 | -32 |
| -40 | -49 | -57 | -65 | -73 | -81 | -90 | -94 | -88 | -86 | -80 | -74 | -68 | -63 | -69 | -77 | -83 | -93 | -101 | -111 |
| -105 | -92 | -83 | -68 | -55 | -40 | -30 | -29 | -25 | -25 | -25 | -27 | -29 | -32 | -35 | -34 | -32 | -30 | -27 | -25 |
| -22 | -24 | -24 | -25 | -16 | -9 | 0 | 10 | 15 | 13 | 13 | 10 | 8 | 5 | 6 | 5 | 6 | 7 | 7 | 8 |
| 9 | 10 | 10 | 17 | 27 | 35 | 45 | 51 | 58 | 63 | 69 | 74 | 80 | 87 | 93 | 100 | 106 | 103 | 103 | 100 |
| 98 | 95 | 95 | 98 | 100 | 103 | 106 | 108 | 97 | 89 | 79 | 68 | 57 | 45 | 34 | 24 | 23 | 22 | 22 | 23 |
| 21 | 19 | 17 | 15 | 16 | 16 | 17 | 17 | 19 | 17 | 14 | 12 | 12 | 14 | 15 | 17 | 20 | 18 | 15 | 13 |
| 16 | 19 | 23 | 27 | 31 | 35 | 39 | 37 | 36 | 33 | 32 | 22 | 8 | -8 | -11 | 1 | 6 | 19 | 29 | 44 |
| 39 | 25 | 15 | -1 | -17 | -21 | -7 | 0 | 15 | 29 | 40 | 28 | 24 | 12 | 6 | 6 | 4 | 4 | 5 | 3 |
| -1 | -5 | -10 | -13 | -12 | -11 | -11 | -9 | -8 | -15 | -21 | -28 | -31 | -35 | -42 | -50 | -53 | -55 | -57 | -58 |
| -59 | -60 | -62 | -64 | -61 | -58 | -54 | -50 | -47 | -44 | -40 | -36 | -10 | 7 | 35 | 38 | 29 | 26 | 13 | 8 |
| 14 | 19 | 26 | 33 | 29 | 22 | 16 | 7 | -2 | -5 | -3 | -2 | -4 | -7 | -10 | -14 | -2 | 1 | 8 | 19 |
| 18 | 11 | 8 | -1 | -7 | -15 | -12 | -6 | -1 | 6 | 12 | 18 | 14 | 12 | 8 | 4 | -2 | 0 | 4 | 7 |
| 12 | 17 | 22 | 27 | 29 | 30 | 32 | 32 | 33 | 34 | 35 | 36 | 36 | 29 | 24 | 18 | 12 | 5 | 6 | 8 |
| 9 | 12 | 15 | 17 | 20 | 23 | 26 | 28 | 31 | 34 | 36 | 24 | 14 | 1 | -8 | -7 | -9 | -7 | -10 | -22 |
| -33 | -38 | -35 | -37 | -33 | -41 | -46 | -55 | -56 | -50 | -47 | -40 | -35 | -27 | -28 | -33 | -37 | -35 | -31 | -28 |
| -22 | -18 | -12 | -15 | -22 | -27 | -32 | -33 | -36 | -34 | -32 | -30 | -32 | -33 | -35 | -38 | -42 | -41 | -32 | -24 |
| -7 | 9 | 18 | 24 | 32 | 35 | 32 | 31 | 27 | 30 | 44 | 44 | 36 | 30 | 17 | 10 | 21 | 27 | 40 | 58 |
| 76 | 76 | 72 | 69 | 61 | 61 | 67 | 71 | 67 | 62 | 60 | 64 | 65 | 70 | 67 | 62 | 57 | 51 | 44 | 37 |
| 30 | 30 | 32 | 34 | 38 | 38 | 30 | 28 | 32 | 33 | 36 | 37 | 40 | 37 | 29 | 23 | 17 | 10 | 6 | 4 |
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| -4 | -6 | -8 | -11 | -16 | -20 | -25 | -28 | -33 | -41 | -48 | -57 | -71 | -88 | -103 | -121 | -128 | -116 | -99 | -78 |
| -58 | -60 | -58 | -56 | -47 | -40 | -27 | -14 | 1 | 1 | 3 | 2 | 11 | 12 | 10 | 13 | 28 | 31 | 28 | 28 |
| 28 | 30 | 31 | 30 | 23 | 18 | -6 | -28 | -52 | -65 | -67 | -60 | -54 | -47 | -38 | -39 | -45 | -49 | -51 | -51 |
| -49 | -44 | -36 | -29 | -37 | -38 | -45 | -46 | -49 | -41 | -32 | -27 | -17 | -8 | -1 | -12 | -18 | -28 | -24 | -22 |
| -19 | -22 | -30 | -34 | -39 | -44 | -45 | -46 | -40 | -33 | -26 | -18 | -11 | -5 | -10 | -18 | -24 | -19 | -11 | -15 |
| -25 | -27 | -17 | -6 | 16 | 26 | 30 | 37 | 39 | 45 | 52 | 40 | 19 | 3 | -21 | -8 | -4 | 11 | 27 | 28 |
| 31 | 25 | 23 | 17 | 13 | 8 | 14 | 25 | 29 | 36 | 38 | 34 | 32 | 37 | 47 | 61 | 75 | 86 | 88 | 83 |
| 81 | 74 | 78 | 82 | 87 | 93 | 86 | 77 | 68 | 62 | 59 | 54 | 51 | 49 | 49 | 47 | 44 | 42 | 38 | 36 |
| 34 | 31 | 29 | 28 | 26 | 27 | 28 | 29 | 28 | 26 | 22 | 14 | 22 | 21 | 12 | 7 | -1 | -2 | -1 | -9 |
| -24 | -36 | -52 | -56 | -62 | -67 | -54 | -46 | -45 | -44 | -56 | -65 | -75 | -68 | -66 | -59 | -55 | -50 | -44 | -42 |
| -41 | -41 | -38 | -31 | -26 | -21 | -22 | -35 | -48 | -57 | -62 | -67 | -62 | -60 | -56 | -55 | -55 | -55 | -55 | -56 |
| -56 | -49 | -44 | -38 | -33 | -26 | -27 | -33 | -37 | -43 | -34 | -26 | -20 | -11 | -9 | -14 | -18 | -12 | -2 | 6 |
| 10 | 14 | 13 | 8 | 5 | 1 | -2 | -6 | -9 | -12 | -15 | -18 | -20 | -23 | -22 | -18 | -10 | -1 | 6 | 13 |
| 20 | 23 | 27 | 27 | 22 | 18 | 11 | 1 | -7 | -16 | -12 | -10 | -4 | 6 | 12 | 18 | 24 | 24 | 24 | 23 |
| 26 | 31 | 33 | 35 | 32 | 26 | 11 | 12 | 8 | 8 | 7 | -1 | -4 | 6 | 10 | 21 | 24 | 20 | 17 | 19 |
| 24 | 24 | 20 | 17 | 12 | 11 | 16 | 20 | 25 | 30 | 33 | 35 | 37 | 36 | 36 | 34 | 30 | 26 | 20 | 13 |
| 6 | 0 | -7 | -13 | -19 | -24 | -30 | -28 | -28 | -24 | -13 | -5 | 6 | 9 | 2 | -1 | -4 | -8 | -11 | -15 |
| -13 | -8 | -5 | -6 | -8 | -10 | -8 | -7 | -7 | -8 | -9 | -12 | -15 | -17 | -21 | -26 | -30 | -32 | -35 | -31 |
| -24 | -20 | -15 | -9 | -7 | -4 | -5 | -8 | -9 | -2 | 4 | 11 | 19 | 15 | 8 | 3 | -2 | -8 | -8 | -2 |
| 2 | 9 | 17 | 17 | 12 | 9 | 3 | -1 | -3 | 1 | 3 | 13 | 18 | 23 | 19 | 11 | 8 | 3 | 1 | 2 |
| 10 | 17 | 27 | 30 | 35 | 26 | 20 | 14 | 7 | 8 | 10 | 9 | 6 | 3 | 0 | -3 | -5 | -4 | -4 | -10 |

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -14 | -20 | -24 | -28 | -32 | -33 | -31 | -29 | -26 | -23 | -20 | -18 | -16 | -14 | -13 | -13 | -7 | -2 | 8 |
| 16 | 30 | 32 | 28 | 27 | 22 | 19 | 16 | 14 | 11 | 11 | 11 | 10 | 9 | 9 | 10 | 12 | 16 | 23 |
| 28 | 33 | 38 | 39 | 39 | 31 | 25 | 15 | 17 | 26 | 30 | 33 | 35 | 33 | 30 | 26 | 23 | 23 | 21 |
| 20 | 18 | 16 | 16 | 16 | 18 | 20 | 21 | 22 | 18 | 12 | 7 | 2 | -3 | -6 | -10 | -18 | -23 | -30 |
| -33 | -35 | -36 | -36 | -35 | -34 | -32 | -29 | -26 | -21 | -18 | -15 | -11 | -7 | -3 | 2 | 8 | 12 | 13 |
| 13 | 11 | 10 | 9 | 10 | 11 | 13 | 14 | 14 | 13 | 8 | 4 | 2 | 1 | -1 | 0 | -1 | -3 | -8 |
| -10 | -12 | -14 | -16 | -18 | -21 | -24 | -27 | -28 | -30 | -28 | -26 | -21 | -16 | -9 | -7 | -11 | -13 | -20 |
| -20 | -16 | -15 | -20 | -23 | -26 | -31 | -27 | -22 | -17 | -9 | -1 | 1 | -3 | -5 | -10 | -15 | -12 | -4 |
| 1 | 0 | -1 | 5 | 19 | 18 | 20 | 19 | 22 | 27 | 31 | 36 | 42 | 40 | 33 | 23 | 3 | 1 | -2 |
| -3 | -6 | -10 | -8 | 1 | 6 | 15 | 22 | 25 | 25 | 18 | 13 | 7 | 1 | -4 | -8 | -6 | -1 | 6 |
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| 0 | 1 | 4 | 6 | 12 | 17 | 22 | 23 | 19 | 17 | 8 | 1 | -1 | -5 | -4 | -3 | -2 | -4 | -7 |
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| 14 | 14 | 13 | 13 | 12 | 11 | 9 | 7 | 2 | -5 | -7 | -12 | -14 | -15 | -11 | -8 | -1 | 1 | 3 |
| 4 | 4 | 3 | 1 | -2 | -6 | -9 | -15 | -11 | -4 | -3 | 3 | 0 | -2 | -6 | -6 | -2 | -4 | -5 |
| -5 | -2 | 1 | 7 | 10 | 11 | 12 | 11 | 9 | 10 | 14 | 17 | 21 | 26 | 28 | 32 | 25 | 21 | 14 |
| 9 | 2 | -1 | -3 | -5 | -5 | -4 | -3 | -2 | 0 | 0 | 1 | 3 | 4 | 5 | 6 | 4 | 0 | -2 |
| -5 | -4 | -3 | -2 | -1 | 0 | 3 | 7 | 11 | 16 | 14 | 9 | 11 | 25 | 37 | 31 | 61 | 79 | 49 |
| 20 | -16 | -55 | -99 | -80 | -37 | -1 | 38 | 24 | 26 | 17 | 14 | 11 | 19 | 8 | 0 | 11 | 8 | 2 |
| 0 | -7 | -7 | -3 | -1 | 7 | 7 | 1 | -1 | -9 | -7 | -2 | 4 | 8 | 3 | 1 | 0 | 3 | 4 |
| 1 | 0 | -7 | -16 | -19 | -21 | -23 | -23 | -24 | -24 | -26 | -27 | -28 | -29 | -31 | -31 | -31 | -27 | -19 |
| -12 | -10 | -6 | -7 | -10 | -12 | -20 | -33 | -43 | -56 | -64 | -68 | -73 | -65 | -61 | -56 | -45 | -40 | -32 |
| -23 | -19 | -14 | -10 | -8 | -6 | -4 | -3 | -1 | -1 | 0 | 0 | 0 | 0 | -1 | -2 | -4 | -1 | 4 |
| 8 | 13 | 18 | 22 | 23 | 25 | 23 | 22 | 21 | 21 | 20 | 21 | 21 | 19 | 18 | 20 | 21 | 19 | 18 |
| 17 | 15 | 14 | 12 | 11 | 10 | 12 | 14 | 16 | 18 | 20 | 21 | 23 | 21 | 21 | 16 | 1 | -5 | -5 |
| -7 | -6 | -6 | -9 | -11 | -14 | -16 | -17 | -19 | -22 | -24 | -26 | -28 | -30 | -31 | -33 | -36 | -36 | -36 |
| -35 | -34 | -30 | -27 | -17 | -13 | -9 | -7 | -8 | -7 | -8 | -7 | -7 | -7 | -7 | -5 | -3 | 1 | 2 |
| 9 | 15 | 21 | 27 | 29 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 32 | 32 | 32 | 33 | 34 | 33 | 26 |
| 22 | 17 | 11 | 12 | 18 | 14 | 7 | 3 | -1 | -5 | -8 | -8 | -7 | -7 | -8 | -9 | -12 | -13 | -14 |
| -12 | -12 | -10 | -15 | -18 | -23 | -28 | -33 | -31 | -29 | -26 | -29 | -31 | -33 | -35 | -38 | -27 | -21 | -10 |
| 9 | 10 | -4 | -12 | -27 | -14 | -4 | 11 | 20 | 18 | 19 | 16 | 13 | 10 | 7 | 5 | 5 | 2 | -1 |
| -5 | -5 | -4 | -2 | -3 | -7 | -8 | 3 | 12 | 23 | 32 | 34 | 32 | 26 | 21 | 15 | 14 | 15 | 16 |
| 17 | 19 | 20 | 22 | 24 | 25 | 26 | 26 | 26 | 26 | 22 | 21 | 19 | 17 | 16 | 14 | 13 | 12 | 11 |
| 10 | 10 | 9 | 8 | 8 | 10 | 14 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 15 | 11 | 7 | 3 | -9 |
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| -5 | -3 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -5 | -7 | -8 | -9 | -10 | -12 | -16 | -18 | -21 |
| -23 | -23 | -24 | -24 | -24 | -24 | -25 | -25 | -25 | -21 | -17 | -13 | -8 | -4 | 2 | 7 | 10 | 11 | 9 |
| 7 | 5 | 3 | 8 | 11 | 14 | 16 | 18 | 18 | 18 | 16 | 20 | 26 | 30 | 33 | 35 | 29 | 25 | 20 |
| 13 | 13 | 18 | 21 | 25 | 25 | 27 | 25 | 24 | 23 | 21 | 20 | 18 | 16 | 16 | 15 | 13 | 13 | 13 |
| 13 | 15 | 16 | 17 | 18 | 20 | 21 | 22 | 20 | 19 | 17 | 17 | 18 | 18 | 19 | 20 | 21 | 14 | 8 |
| 1 | -2 | -5 | -7 | -8 | -10 | -11 | -12 | -13 | -14 | -16 | -18 | -19 | -21 | -22 | -23 | -22 | -19 | -19 |
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| 18 | 19 | 18 | 17 | 15 | 12 | 9 | 5 | 2 | -1 | -4 | -7 | -9 | -8 | -8 | -9 | -10 | -11 | -18 |
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| 14 | 13 | 11 | 11 | 11 | 11 | 11 | 10 | 9 | 8 | 6 | 4 | 3 | 0 | -1 | -2 | -3 | -2 | 1 |
| 5 | 8 | 10 | 12 | 14 | 15 | 13 | 12 | 11 | 9 | 8 | 6 | 4 | 3 | 2 | 1 | 2 | 3 | 7 |
| 9 | 10 | 9 | 9 | 8 | 7 | 5 | 3 | 2 | 1 | 0 | -1 | -4 | -6 | -7 | -9 | -10 | -13 | -14 |
| -16 | -18 | -20 | -21 | -22 | -23 | -23 | -23 | -23 | -22 | -22 | -21 | -22 | -22 | -24 | -25 | -27 | -27 | -26 |
| -25 | -23 | -22 | -19 | -15 | -14 | -11 | -9 | -6 | -4 | -2 | -1 | -1 | 0 | 4 | 9 | 14 | 15 | 14 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 14 | 13 | 13 | 12 | 12 | 12 | 11 | 11 | 11 | 12 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 12 |
| 13 | 17 | 22 | 23 | 24 | 24 | 25 | 25 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 22 | 22 | 22 | 22 | 12 |
| 11 | 10 | 10 | 9 | 9 | 9 | 6 | 5 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 18 | 18 | 18 | 18 | 10 |
| -11 | -13 | -14 | -16 | -18 | -18 | -23 | -23 | -22 | -19 | -19 | -16 | -16 | -15 | -15 | -8 | -8 | -9 | -9 | -10 |
| -23 | -23 | -24 | -23 | -22 | -21 | -18 | -18 | -18 | -17 | -17 | -17 | -17 | -17 | -17 | -10 | -8 | -9 | -9 | -22 |
| -11 | -11 | -12 | -12 | -12 | -12 | -14 | -16 | -17 | -19 | -17 | -15 | -15 | -14 | -14 | -10 | -7 | -6 | -6 | -4 |
| -3 | -2 | -2 | -1 | 0 | 1 | 2 | 4 | 7 | 9 | 10 | 11 | 11 | 11 | 12 | 15 | 15 | 16 | 17 | 17 |
| 18 | 18 | 20 | 22 | 24 | 24 | 30 | 31 | 30 | 30 | 30 | 29 | 29 | 28 | 27 | 26 | 26 | 27 | 27 | 27 |
| 28 | 28 | 29 | 29 | 30 | 30 | 29 | 28 | 27 | 25 | 25 | 21 | 21 | 21 | 21 | 21 | 21 | 20 | 20 | 19 |
| 19 | 17 | 15 | 14 | 12 | 11 | 10 | 8 | 7 | 5 | 4 | 3 | 2 | 2 | 2 | 2 | 1 | 0 | -1 | -2 |
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| -42 | -42 | -43 | -42 | -41 | -41 | -38 | -35 | -30 | -27 | -23 | -21 | -20 | -18 | -18 | -17 | -15 | -14 | -12 | -10 |
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| 2 | 2 | 1 | 1 | 3 | 3 | 6 | 8 | 10 | 14 | 14 | 15 | 14 | 14 | 11 | 8 | 5 | 3 | 1 | -1 |
| -3 | -4 | -6 | -7 | -7 | -7 | -3 | -1 | 0 | 2 | 3 | 4 | 4 | 4 | 2 | 0 | -1 | -3 | -5 | -6 |
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| 22 | 20 | 17 | 14 | 11 | 8 | 5 | 2 | -1 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -3 | -3 | -5 |
| -5 | -7 | -8 | -9 | -8 | -6 | -3 | -2 | -1 | -4 | -4 | -7 | -7 | -7 | -8 | -8 | -10 | -13 | -16 | -17 |
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| -2 | -1 | -1 | -1 | -1 | -1 | -1 | -2 | -2 | -3 | -3 | -2 | -2 | -1 | 0 | 0 | -4 | -7 | -10 | -12 |
| -14 | -15 | -16 | -16 | -16 | -16 | -16 | -14 | -12 | -5 | -5 | -3 | -3 | -3 | 0 | 1 | 2 | 2 | 2 | 2 |
| 2 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 1 | 0 | 0 | 3 | 12 | 14 | 18 | 21 | 23 | 20 |
| 19 | 16 | 15 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 13 | 15 | 17 | 18 | 19 | 19 | 20 | 20 | 19 | 19 |
| 18 | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 15 | 14 | 12 |
| 10 | 8 | 6 | 4 | 4 | 4 | 3 | 2 | 1 | -2 | -4 | -6 | -8 | -9 | -11 | -11 | -12 | -14 | -16 | -17 |
| -18 | -20 | -22 | -23 | -25 | -26 | -27 | -28 | -27 | -23 | -20 | -17 | -15 | -13 | -9 | -12 | -13 | -14 | -15 | -12 |
| -9 | -6 | -7 | -7 | -8 | -9 | -9 | -6 | -4 | -3 | -2 | -3 | -3 | -3 | -4 | -4 | -5 | -6 | -6 | -5 |
| -3 | -2 | -1 | -2 | -2 | -3 | -5 | -6 | -7 | -6 | -4 | -3 | -3 | -1 | 0 | 1 | 2 | 4 | 5 | 6 |
| 4 | 4 | 4 | 4 | 4 | 4 | 12 | 12 | 12 | 12 | 10 | 9 | 8 | 6 | 7 | 2 | 5 | 4 | 4 | 4 |
| 8 | 7 | 6 | 6 | 7 | 7 | 9 | 9 | 5 | 3 | 3 | 5 | 5 | 6 | 7 | 8 | 9 | 9 | 8 | 8 |
| -10 | -11 | -12 | -13 | -12 | -12 | -10 | -9 | -7 | -8 | -8 | -9 | -9 | -8 | -7 | -7 | -7 | -8 | -9 | -10 |
| -5 | -6 | -6 | -6 | -5 | -5 | -6 | -6 | -5 | -4 | -4 | -2 | -2 | -1 | 0 | 1 | 1 | 1 | 1 | 0 |
| -2 | -2 | -1 | -1 | -1 | -1 | -1 | -2 | -3 | -3 | -3 | -2 | -2 | -1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -4 | -3 | -2 | -1 | -1 | -1 | -2 | -3 | -4 | -4 | -4 | -3 | -3 | -2 | -1 | -1 | -1 | -1 | -1 | -2 |
| 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 0 | 0 | -1 | -1 | -1 | -1 | 0 | 1 | 1 | 2 | 3 |
| 4 | 4 | 4 | 4 | 6 | 10 | 11 | 12 | 14 | 15 | 15 | 13 | 13 | 11 | 10 | 7 | 7 | 7 | 8 | 8 |
| 7 | 6 | 4 | 2 | 0 | -2 | -3 | -5 | -6 | -6 | -8 | -9 | -9 | -9 | -10 | -10 | -11 | -11 | -11 | -11 |
| -9 | -8 | -8 | -9 | -9 | -10 | -10 | -11 | -11 | -9 | -7 | -6 | -6 | -4 | -2 | 2 | 5 | 8 | 16 | 10 |
| 12 | 13 | 12 | 12 | 11 | 12 | 16 | 16 | 19 | 21 | 21 | 20 | 20 | 20 | 19 | 17 | 17 | 17 | 16 | 16 |
| 16 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 14 | 13 | 11 | 9 | 8 | 6 | 6 | 4 | 3 | 3 | 1 | -1 |
| -4 | -6 | -8 | -10 | -11 | -13 | -15 | -17 | -19 | -21 | -22 | -23 | -23 | -23 | -24 | -22 | -20 | -16 | -12 | -8 |
| -7 | -6 | -5 | -5 | -5 | -4 | -4 | -3 | -3 | -3 | -3 | -3 | -3 | -4 | -4 | -3 | -3 | -3 | -3 | -2 |
| -2 | -3 | -4 | -5 | -6 | -6 | -2 | -2 | -2 | -2 | -1 | -1 | -1 | -1 | -1 | 0 | -3 | -4 | -2 | -3 |
| -5 | -5 | -4 | -3 | -2 | -2 | -2 | -2 | -4 | -4 | -4 | -5 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -5 |
| -5 | -6 | -7 | -7 | -4 | -4 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 11 | 12 | 14 | 12 | 11 | 10 | 8 | 7 | 5 | 5 | 3 | 3 | 2 | 2 | 2 |
| 1 | 1 | 0 | -1 | -3 | -3 | -5 | -6 | -7 | -10 | -10 | -10 | -11 | -11 | -11 | -11 | -11 | -11 | -10 | -9 |
| -7 | -5 | -3 | -3 | -3 | -4 | -5 | -6 | -6 | -7 | -7 | -7 | -6 | -5 | -5 | -5 | -5 | -6 | -6 | -7 |
| -7 | -5 | -5 | -5 | -5 | -6 | -6 | -6 | -6 | -5 | -4 | -4 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 |
| 9 | 9 | 9 | 8 | 9 | 9 | 10 | 11 | 11 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 8 | 8 | 9 |
| 7 | 6 | 6 | 5 | 4 | 4 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 6 | 8 | 10 |
| 10 | 9 | 9 | 8 | 7 | 7 | 5 | 5 | 4 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | -1 | -1 | -2 | -2 | -2 | -2 | -2 | -1 | -1 | 0 | 0 | 0 |
| 1 | 1 | 1 | -1 | -2 | -2 | -5 | -5 | -4 | -4 | -3 | -2 | -2 | -2 | -3 | -4 | -5 | -6 | -6 | -7 |

IIV315 33.003.0 LONG BEACH EARTHQUAKE MAR 10, 1933 - 1754 PST
 STATION NO. 131 PUBLIC UTILITIES BLDG., LONG BEACH, CAL.
 INSTR PERIOD = 0.105 SEC DAMPING = 1.000 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = 279.8 CM/SEC/SEC AT 3.22 SEC VELO = -30.2 CM/SEC AT 1.58 SEC DISP = -26.4 CM AT 3.28 SEC

| 4946 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC. | | | | | | | | | | INITIAL DISP = 9.04476 CM | | | | | | | | | |
|--|-------|-------|-------|------|-------|------|-------|-------|-------|---------------------------|-------|-------|------|-------|------|-------|-------|-------|-------|
| INITIAL VELO = 7.22197 CM/SEC | | | | | | | | | | INITIAL DISP = 9.04476 CM | | | | | | | | | |
| -423 | -326 | -433 | -572 | -637 | -774 | -826 | -393 | 372 | 193 | -246 | -492 | -679 | -931 | -849 | -417 | -182 | 94 | 136 | -158 |
| -363 | -437 | -74 | 214 | 443 | 628 | 421 | 276 | 191 | 82 | 208 | 558 | 754 | 904 | 271 | -218 | -544 | -77 | 270 | 361 |
| -940 | -1725 | -1092 | -427 | -111 | 325 | 600 | 1100 | 795 | 79 | -401 | -704 | 158 | 894 | -155 | -510 | -1237 | -1304 | -2308 | 763 |
| 990 | -175 | -242 | -549 | 136 | -378 | 401 | -885 | -1290 | -1865 | -1450 | -643 | -141 | 326 | 728 | -2 | -694 | -1145 | -1752 | -1515 |
| 2217 | 1003 | 267 | -170 | -471 | -378 | 401 | 643 | 1143 | 1121 | 264 | -410 | -1028 | -806 | 616 | 1532 | 1587 | 44 | -566 | -1573 |
| -1043 | -82 | 633 | 1107 | 1484 | 212 | -222 | -1136 | 2587 | 2501 | 1303 | 1127 | 772 | 528 | 230 | -46 | -329 | -608 | -860 | -178 |
| 63 | -562 | -520 | 425 | -209 | -786 | -467 | -195 | -186 | -682 | -1301 | -630 | 1525 | 411 | -380 | -872 | -1297 | -496 | 587 | 1380 |
| 1201 | -7 | -426 | -1131 | -295 | 557 | 289 | 268 | 715 | 787 | 148 | 2 | -484 | 789 | 1236 | -12 | -256 | -926 | -1132 | -1588 |
| 2244 | 2798 | 1357 | 961 | 641 | 216 | 23 | -483 | 1806 | 2649 | 1421 | 1179 | 824 | 575 | 291 | -11 | -254 | -564 | -103 | 422 |
| 765 | 176 | -233 | -622 | -895 | -1138 | 514 | 453 | -145 | 13 | 568 | 369 | -67 | -358 | -592 | -863 | -1119 | -1089 | -278 | 196 |
| 691 | 346 | -37 | -157 | 423 | -94 | -445 | -792 | -1025 | -1357 | -442 | 193 | -706 | -823 | -1513 | 64 | 1136 | 16 | -105 | 161 |
| 623 | 842 | 298 | -284 | -874 | -479 | 588 | -169 | -694 | -585 | 87 | 392 | -632 | -278 | -275 | -213 | 375 | 682 | 941 | 393 |
| 51 | -242 | 68 | 474 | 736 | 989 | 1231 | 889 | 304 | -11 | -24 | 431 | -132 | -743 | -1438 | -204 | 609 | 196 | 400 | 399 |
| 263 | -197 | -365 | -648 | 849 | 133 | 1912 | 1802 | 881 | 575 | 166 | -68 | -461 | 914 | 1567 | 712 | 425 | 125 | -139 | -352 |
| -759 | -442 | 1139 | 328 | 249 | 359 | 415 | -118 | -374 | -734 | -963 | -1325 | -1380 | -656 | -59 | 382 | 894 | 887 | 285 | 122 |
| -280 | 226 | 511 | 59 | -62 | -254 | -385 | -486 | -232 | -75 | 46 | -98 | -233 | -296 | -166 | -107 | -259 | -81 | 691 | 700 |
| 181 | -65 | -330 | -280 | -159 | -367 | -497 | -708 | -371 | 716 | 42 | -278 | -623 | -129 | 600 | 332 | 37 | -80 | -239 | -344 |
| -502 | -220 | 240 | 302 | 31 | 161 | 83 | -129 | -284 | -22 | 225 | -227 | -436 | -768 | -432 | 168 | -152 | -265 | -230 | 52 |
| -117 | -230 | -246 | -132 | -303 | -403 | -525 | -378 | -95 | 62 | 271 | 233 | 0 | -112 | -239 | -328 | -484 | -250 | 655 | 486 |
| 227 | 125 | 40 | -54 | -136 | -235 | -290 | -86 | 158 | 180 | -63 | 15 | 56 | -44 | -153 | -233 | -249 | -50 | 58 | 207 |
| 89 | -144 | 95 | 13 | -52 | -134 | -60 | 88 | 216 | 209 | 56 | -49 | 41 | 17 | -117 | -229 | -165 | 87 | 227 | 107 |
| -73 | -162 | -267 | -175 | -45 | -63 | -177 | -102 | 40 | 142 | 74 | -100 | -182 | -295 | -247 | -107 | -39 | 38 | -5 | -74 |
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| 74 | 121 | 219 | 205 | 87 | -3 | -35 | 4 | 27 | 14 | -6 | 83 | 145 | 68 | -30 | -77 | 45 | 132 | 47 | -29 |
| 34 | 215 | 126 | -53 | -171 | -228 | -10 | 175 | 214 | 62 | -19 | 69 | 135 | 220 | 59 | -147 | -1 | -17 | -96 | -187 |
| -107 | -30 | 44 | 15 | -82 | -143 | -192 | -259 | -204 | -32 | -34 | -4 | 190 | 223 | -14 | -94 | -271 | -80 | 151 | -72 |
| -119 | 45 | -30 | -153 | -219 | -219 | -4 | -51 | -134 | -119 | -77 | -67 | -53 | -6 | 180 | 165 | 57 | 104 | 133 | 129 |
| 63 | 57 | 97 | 139 | 153 | 186 | -25 | -84 | 78 | 77 | 83 | 176 | 152 | 4 | -85 | -128 | -55 | -26 | -159 | -167 |
| -74 | -38 | -32 | -137 | -137 | -79 | -46 | -38 | -94 | -135 | -110 | -48 | -57 | -40 | -47 | 91 | 199 | 68 | -8 | -34 |
| 18 | 30 | 45 | 62 | 134 | 153 | 170 | 124 | 39 | -25 | 7 | 61 | 97 | 62 | -75 | -147 | -93 | -49 | -31 | -19 |
| -73 | -31 | 58 | 118 | 82 | -9 | 11 | 29 | -34 | -74 | -117 | -79 | -11 | 29 | 74 | 71 | 1 | 15 | 51 | 81 |
| 52 | -54 | -119 | -200 | -171 | -17 | -22 | -29 | 1 | 47 | -5 | -70 | -109 | -160 | -134 | -51 | -5 | -5 | -41 | -19 |
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| -43 | 14 | 0 | -65 | -29 | 39 | 62 | 16 | -21 | -15 | 34 | 55 | 70 | 71 | 95 | 43 | -62 | -133 | -79 | 10 |
| 53 | 111 | 93 | 7 | 18 | 75 | 119 | 93 | -14 | -34 | 12 | 31 | 49 | 60 | 82 | 43 | -51 | -70 | -28 | -8 |
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| 23 | 64 | 83 | 87 | 92 | 101 | 104 | 85 | 71 | 60 | 49 | 38 | 47 | 65 | 72 | 81 | 23 | 1 | 49 | 76 |
| 97 | 123 | 110 | 60 | 30 | 10 | 45 | 69 | 84 | 39 | -3 | 13 | 32 | -4 | -55 | 39 | 108 | 143 | 71 | 27 |
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| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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| 54 | 62 | 69 | 11 | -14 | 15 | 15 | 15 | 32 | 23 | -8 | -26 | -44 | -23 | -6 | 6 | 16 | 29 | 39 | 53 | 42 | 9 |
| -12 | -26 | 1 | 19 | 33 | 47 | 33 | 47 | 55 | 23 | 3 | 18 | 31 | 38 | 47 | 46 | 10 | -17 | -1 | 25 | 39 | 41 |
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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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| 3 | 4 | 4 | 5 | 5 | 5 | 4 | 5 | 4 | 4 | 4 | 4 | 3 | 4 | 5 | 4 | 3 | 2 | 2 | 3 |
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| 12 | 13 | 14 | 15 | 15 | 13 | 11 | 9 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 7 | 2 |
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| 2 | 3 | 0 | -1 | -2 | -2 | -2 | -2 | 0 | 3 | 4 | 5 | 7 | 7 |
| 7 | 8 | 8 | 7 | 4 | 5 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 7 | 5 | 4 | 3 | 8 | 8 | 8 | 8 | 9 | 10 |
| 12 | 13 | 13 | 14 | 12 | 13 | 13 | 11 | 10 | 9 | 8 | 8 | 8 | 6 |
| 5 | 4 | 3 | 1 | 1 | 2 | 3 | -4 | -1 | 1 | -2 | -4 | -4 | -4 |
| -5 | -7 | -13 | -10 | -16 | -13 | -13 | -18 | -20 | -22 | -12 | -11 | -22 | -21 |
| -18 | -17 | -13 | -9 | -12 | -18 | -13 | -12 | -9 | -1 | -6 | -3 | 3 | 3 |
| -2 | -5 | -5 | -1 | 4 | -4 | -2 | 1 | 4 | 2 | -4 | -2 | -5 | -7 |
| -5 | -1 | 2 | 3 | 0 | -2 | -2 | 3 | 4 | -2 | -2 | 1 | 2 | 4 |
| 0 | 0 | -4 | -3 | -2 | 8 | 0 | -2 | 4 | 1 | 9 | 4 | -3 | 0 |
| 2 | 4 | 2 | -3 | -6 | 4 | 4 | -6 | -2 | 0 | 3 | 4 | -4 | -6 |
| -5 | -5 | -3 | -5 | -4 | -4 | -4 | -4 | -9 | -7 | -3 | -5 | -7 | -10 |
| -9 | -5 | -3 | -1 | -6 | -6 | -6 | -5 | -4 | -4 | -1 | -1 | -3 | 5 |
| 6 | 8 | 10 | 8 | 16 | 12 | 12 | 3 | 6 | 6 | 3 | 3 | 4 | 21 |
| 17 | 18 | 21 | 23 | 22 | 23 | 23 | 19 | 13 | 8 | 14 | 14 | 13 | 12 |
| 3 | -5 | 0 | 3 | -2 | -3 | 2 | -9 | -13 | -7 | -8 | -12 | -16 | -21 |
| -20 | -18 | -17 | -16 | -17 | -14 | -18 | -17 | -14 | -17 | -21 | -19 | -19 | -29 |
| -26 | -21 | -19 | -16 | -16 | -15 | -16 | -13 | -12 | -10 | -6 | -11 | -15 | -6 |
| -2 | 0 | 2 | 4 | 9 | 9 | 13 | 20 | 22 | 24 | 19 | 18 | 22 | 26 |
| 28 | 29 | 30 | 30 | 28 | 27 | 24 | 20 | 21 | 21 | 12 | 14 | 7 | 4 |
| 4 | 5 | 2 | -5 | 29 | 12 | 15 | 17 | -17 | -17 | -17 | -20 | -21 | -23 |
| -25 | -27 | -28 | -28 | -28 | -12 | -27 | -23 | -22 | -21 | -13 | -10 | -9 | -8 |
| -7 | -6 | -5 | -4 | -2 | -1 | 0 | 6 | 8 | 10 | 10 | 12 | 14 | 17 |
| 18 | 19 | 18 | 14 | 15 | 16 | 17 | 22 | 23 | 23 | 22 | 22 | 21 | 21 |
| 20 | 19 | 18 | 16 | 14 | 12 | 11 | 10 | 9 | 7 | -2 | -11 | -10 | -1 |
| -13 | -9 | -6 | -3 | -1 | -8 | -6 | -1 | -5 | -9 | -13 | -11 | -9 | -14 |
| -5 | -7 | -9 | -10 | -11 | -9 | -8 | -7 | -7 | -13 | -11 | -9 | -5 | -3 |
| 1 | 0 | 0 | 1 | 2 | 4 | 4 | 2 | 1 | 3 | 7 | 8 | 10 | 9 |
| 7 | 5 | 4 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 11 | 4 | 1 | 3 |
| 1 | -2 | -3 | -1 | 1 | 5 | 7 | -5 | -4 | 3 | 3 | 1 | 0 | -2 |
| -3 | -2 | -2 | -2 | -2 | -2 | -4 | -9 | -10 | -6 | -5 | -4 | -4 | -6 |
| -9 | -11 | -10 | -8 | -7 | -7 | -7 | -6 | -4 | -3 | -1 | -5 | -8 | -10 |
| -6 | -5 | -3 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -4 | -3 | -2 |
| -1 | -1 | -3 | -4 | -5 | -3 | -3 | -6 | -4 | -3 | -1 | 0 | 2 | 2 |
| 13 | 13 | 13 | 13 | 14 | 14 | 14 | 8 | 8 | 9 | 12 | 13 | 15 | 14 |
| 9 | 9 | 10 | 10 | 10 | 10 | 10 | 14 | 13 | 13 | 9 | 10 | 9 | 9 |
| -3 | -3 | -4 | -5 | -6 | -6 | -7 | -9 | -7 | -6 | -5 | -8 | -10 | -2 |
| -11 | -10 | -7 | -5 | -6 | -5 | -6 | -6 | -6 | -5 | -3 | -2 | -2 | -1 |
| 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 2 | 2 | 0 | -1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 6 | 5 | 4 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 9 | 5 | 5 | 5 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 1 | 2 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | -1 | -2 | -3 | -4 | -5 |
| -5 | -5 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -4 | -4 | -5 | -5 | -5 | -5 | -4 | -4 | -4 | -4 | -2 | -3 | -4 | -5 | |
| 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 0 | 0 | 1 | 2 | |
| -3 | -2 | -1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 3 | 1 | 0 | | |
| 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 | 12 | 14 | 16 | | |
| 14 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 7 | 4 | 5 | 7 | 7 | 7 | 5 | 4 | 4 | 2 | -1 | -3 | -6 | -8 | | |
| -12 | -12 | -13 | -13 | -13 | -13 | -13 | -13 | -13 | -13 | -13 | -13 | -11 | -9 | -10 | -11 | -12 | -12 | -12 | -10 | -9 | -6 | -11 | -12 | -13 | -9 | | |
| -14 | -12 | -11 | -9 | -9 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -6 | -4 | -6 | -7 | -7 | -7 | -4 | -2 | -2 | 0 | 8 | 9 | 10 | 11 | | |
| 14 | 15 | 16 | 18 | 18 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 15 | 14 | 15 | 17 | 17 | 17 | 12 | 10 | 10 | 2 | 6 | 4 | 0 | -2 | | |
| -6 | -7 | -7 | -8 | -8 | -8 | -8 | -8 | -8 | -8 | -8 | -8 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -10 | -10 | -10 | | |
| -12 | -13 | -13 | -14 | -14 | -15 | -15 | -15 | -15 | -15 | -15 | -15 | -13 | -8 | -11 | -13 | -13 | -13 | -6 | -4 | -4 | -2 | 0 | 0 | 3 | 3 | | |
| 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 3 | | |
| 0 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 5 | 4 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 3 | 3 | 2 | 2 | 1 | | |
| -3 | -4 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -4 | -3 | -4 | -4 | -4 | -4 | -3 | -2 | -2 | -2 | -1 | -1 | 0 | 0 | | |
| 4 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 15 | 15 | 15 | 16 | 16 | 16 | 15 | 14 | 14 | 14 | 12 | 12 | 10 | 7 | | |
| -2 | -4 | -6 | -8 | -8 | -7 | -7 | -6 | -6 | -6 | -6 | -6 | -2 | -2 | -3 | -3 | -3 | -3 | -2 | -2 | -2 | -2 | -2 | -3 | -3 | -3 | | |
| -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -5 | -11 | -9 | -7 | -5 | -4 | -4 | -4 | -4 | -4 | -11 | -10 | -9 | -8 | | |
| -7 | -6 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -5 | -5 | -5 | -5 | -4 | -3 | -2 | -1 | | |
| 1 | 2 | 3 | 4 | 4 | 6 | 6 | 8 | 8 | 9 | 9 | 11 | 13 | 13 | 13 | 11 | 11 | 12 | 12 | 11 | 11 | 10 | 9 | 8 | 7 | 6 | | |
| 3 | 1 | -1 | -3 | -3 | -5 | -5 | -7 | -7 | -10 | -10 | -12 | -14 | -15 | -14 | -12 | -10 | -16 | -16 | -17 | -17 | -13 | -15 | -14 | -12 | -11 | | |
| -6 | -6 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -3 | -1 | -3 | -3 | -3 | 0 | 1 | 1 | 1 | 2 | 3 | 4 | 5 | 5 | | |
| -12 | -12 | -12 | -13 | -13 | -12 | -12 | -12 | -12 | -10 | -10 | -9 | -8 | -6 | -8 | -9 | -9 | -5 | -2 | -2 | -2 | -2 | -7 | -6 | -5 | -4 | | |
| 5 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 10 | 9 | 10 | 11 | 11 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| 6 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | | | | | | | | | | | | | | | | | | | | |

IIV316 41.004.0 TORRANCE-GARDENA EARTHQUAKE NOV 14, 1941 - 0042 PST EPICENTER - 33 48 00N, 118 12 00W
 STATION NO. 131 PUBLIC UTILITIES BLDG., LONG BEACH, CAL. COMP EAST 33 46 11N, 118 11 35W
 INSTR PERIOD = 0.098 SEC DAMPING = 0.552 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -53.7 CM/SEC/SEC AT 8.88 SEC VELO = 9.3 CM/SEC AT 8.62 SEC DISP = 3.6 CM AT 8.88 SEC

3331 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
 INITIAL VELO = 0.04221 CM/SEC INITIAL DISP = 0.13906 CM

| | 5 | 5 | 2 | -10 | -25 | -45 | -38 | -25 | -7 | 5 | 13 | 18 | 24 | 29 | 29 | 13 | -2 | -3 | 3 | 6 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | 5 | 5 | 2 | -10 | -25 | -45 | -38 | -25 | -7 | 5 | 13 | 18 | 24 | 29 | 29 | 13 | -2 | -3 | 3 | 6 |
| 1 | -5 | -9 | -14 | -3 | -3 | -2 | 4 | 7 | 15 | 21 | 30 | 10 | -16 | -32 | -23 | -6 | 3 | -3 | -9 | -2 |
| -3 | -15 | -32 | -24 | -8 | -8 | 4 | 14 | 25 | 39 | 47 | 50 | 47 | 54 | 62 | 74 | 55 | 26 | -2 | -11 | -21 |
| -32 | -46 | -63 | -92 | -90 | -90 | -58 | -16 | -1 | -1 | -29 | -42 | -63 | -69 | -51 | -14 | 17 | 20 | 20 | 15 | 15 |
| 8 | 5 | 5 | 28 | 49 | 49 | 71 | 65 | 58 | 49 | 37 | 5 | -34 | -75 | -72 | -47 | -24 | 2 | -2 | -2 | 0 |
| 19 | 48 | 45 | 20 | -45 | -45 | -58 | -52 | -34 | -2 | 24 | 20 | -25 | -59 | -64 | -4 | 55 | 81 | 62 | -11 | -61 |
| -58 | -6 | 22 | 15 | 12 | 12 | -5 | 1 | -1 | 12 | 27 | 40 | 37 | 15 | -35 | -80 | -72 | -50 | -13 | 11 | 11 |
| -3 | -17 | -14 | 1 | 33 | 33 | 74 | 79 | 63 | 38 | 34 | 21 | -11 | -31 | -44 | -11 | 13 | 27 | 37 | 51 | 83 |
| 119 | 111 | 98 | 65 | 40 | 40 | 32 | 55 | 67 | 77 | 61 | 42 | 16 | -36 | -102 | -120 | -122 | -119 | -92 | -74 | -50 |
| -35 | -21 | -41 | -57 | -75 | -75 | -74 | -71 | -11 | 61 | 114 | 146 | 140 | 91 | 35 | 22 | 47 | 60 | 52 | 44 | 53 |
| 55 | 31 | 4 | -22 | -50 | -50 | -93 | -115 | -124 | -125 | -123 | -120 | -116 | -126 | -157 | -195 | -209 | -219 | -210 | -180 | -140 |
| -112 | -83 | -51 | -36 | -19 | -19 | -38 | -36 | -28 | 10 | 58 | 74 | 87 | 77 | 81 | 105 | 134 | 151 | 164 | 169 | 155 |
| 146 | 144 | 131 | 123 | 90 | 90 | 55 | 25 | -30 | -96 | -138 | -164 | -159 | -155 | -106 | -71 | -26 | -8 | -31 | -74 | -126 |
| -244 | -308 | -329 | -316 | -231 | -231 | -137 | 20 | 90 | 150 | 170 | 174 | 157 | 154 | 145 | 154 | 155 | 162 | 167 | 214 | 260 |
| 313 | 377 | 404 | 421 | 430 | 420 | 417 | 373 | 322 | 248 | 118 | 118 | 27 | -33 | -70 | -78 | -49 | 26 | 56 | 100 | 119 |
| 78 | -18 | -161 | -288 | -356 | -356 | -379 | -383 | -373 | -351 | -309 | -273 | -180 | -132 | -74 | -51 | -96 | -136 | -170 | -177 | -182 |
| -163 | -151 | -82 | -36 | 50 | 50 | 154 | 159 | 184 | 165 | 146 | 62 | -40 | -85 | -168 | -180 | -173 | -126 | -4 | 131 | 171 |
| 158 | 121 | 50 | 29 | 8 | 8 | 3 | -2 | 5 | 28 | 40 | 49 | 42 | 25 | 23 | -4 | -8 | -7 | 1 | 18 | 38 |
| 45 | 35 | 13 | -26 | -86 | -86 | -122 | -139 | -139 | -124 | -89 | -85 | -76 | -73 | -72 | -76 | -79 | -79 | -77 | -65 | -45 |
| -5 | 33 | 92 | 135 | 138 | 138 | 135 | 121 | 89 | 35 | 12 | -34 | -41 | -40 | -40 | -7 | 41 | 78 | 111 | 138 | 157 |
| 159 | 165 | 166 | 170 | 172 | 172 | 177 | 178 | 180 | 177 | 175 | 164 | 159 | 154 | 178 | 190 | 203 | 224 | 241 | 241 | 247 |
| 241 | 227 | 195 | 149 | 79 | 79 | 52 | 38 | 32 | 35 | 37 | 30 | -16 | -64 | -135 | -204 | -246 | -329 | -381 | -425 | -476 |
| -499 | -518 | -531 | -535 | -537 | -537 | -527 | -483 | -457 | -391 | -338 | -306 | -233 | -188 | -154 | -122 | -112 | -90 | -67 | -12 | 37 |
| 63 | 80 | 99 | 98 | 87 | 87 | 65 | 35 | 18 | 9 | 47 | 81 | 115 | 170 | 209 | 224 | 240 | 240 | 242 | 229 | 224 |
| 216 | 216 | 214 | 215 | 212 | 212 | 205 | 188 | 152 | 96 | 61 | 35 | 7 | -25 | -25 | -16 | 3 | 27 | 43 | 68 | 67 |
| 58 | 30 | -12 | -65 | -105 | -105 | -126 | -135 | -124 | -85 | -67 | -47 | -35 | -26 | -24 | -33 | -35 | -39 | -37 | -35 | -31 |
| -26 | -19 | -13 | -13 | -18 | -18 | -22 | -22 | -27 | -30 | -28 | -24 | -16 | -8 | -4 | -2 | -12 | -24 | -41 | -58 | -82 |
| -89 | -98 | -96 | -95 | -85 | -85 | -76 | -66 | -62 | -55 | -59 | -61 | -66 | -65 | -57 | -37 | -22 | 26 | 26 | 36 | 37 |
| 38 | 10 | -8 | -18 | -18 | -18 | -21 | 7 | 22 | 44 | 58 | 69 | 69 | 71 | 66 | 57 | 50 | 45 | 41 | 43 | 43 |
| 44 | 45 | 48 | 52 | 56 | 56 | 59 | 67 | 73 | 77 | 81 | 75 | 62 | 41 | 24 | 16 | 12 | 20 | 33 | 58 | 65 |
| 76 | 73 | 63 | 52 | 38 | 38 | 27 | 18 | 12 | 6 | 7 | 14 | 19 | 29 | 35 | 46 | 55 | 60 | 65 | 69 | 74 |
| 76 | 79 | 82 | 85 | 85 | 85 | 88 | 85 | 81 | 82 | 80 | 79 | 75 | 71 | 65 | 60 | 54 | 48 | 40 | 30 | 22 |
| 13 | 6 | -2 | -9 | -9 | -9 | -11 | -10 | -9 | -8 | -8 | -8 | -16 | -25 | -35 | -46 | -56 | -69 | -77 | -77 | -78 |
| -72 | -54 | -44 | -28 | -20 | -20 | -18 | -12 | -7 | -4 | -3 | -2 | -3 | -4 | -6 | -8 | -10 | -14 | -18 | -24 | -30 |
| -31 | -35 | -41 | -52 | -58 | -58 | -60 | -62 | -62 | -62 | -61 | -62 | -62 | -65 | -73 | -79 | -81 | -86 | -88 | -83 | -76 |
| -68 | -60 | -49 | -37 | -27 | -27 | -21 | -19 | -17 | -21 | -25 | -33 | -41 | -54 | -65 | -69 | -75 | -74 | -74 | -74 | -74 |
| -74 | -73 | -73 | -72 | -71 | -71 | -70 | -69 | -64 | -57 | -55 | -52 | -50 | -48 | -47 | -46 | -45 | -43 | -41 | -39 | -35 |
| -30 | -32 | -33 | -35 | -36 | -36 | -36 | -35 | -32 | -26 | -21 | -12 | -5 | -2 | 0 | 2 | 3 | 3 | 3 | 3 | 2 |
| 3 | 4 | 7 | 11 | 14 | 14 | 17 | 20 | 25 | 30 | 37 | 46 | 54 | 61 | 65 | 69 | 72 | 78 | 81 | 85 | 89 |
| 94 | 97 | 97 | 99 | 96 | 96 | 90 | 88 | 86 | 84 | 83 | 81 | 73 | 68 | 61 | 53 | 46 | 43 | 40 | 43 | 46 |
| 49 | 55 | 54 | 52 | 52 | 52 | 51 | 50 | 49 | 48 | 47 | 48 | 48 | 49 | 49 | 49 | 49 | 50 | 50 | 50 | 51 |
| 51 | 50 | 49 | 47 | 43 | 43 | 41 | 38 | 36 | 35 | 34 | 34 | 33 | 31 | 30 | 28 | 26 | 24 | 21 | 18 | 14 |
| 10 | 6 | 2 | -2 | -5 | -5 | -9 | -12 | -15 | -20 | -24 | -29 | -34 | -40 | -45 | -50 | -54 | -60 | -66 | -74 | -82 |
| -85 | -87 | -90 | -86 | -81 | -81 | -75 | -68 | -63 | -58 | -56 | -54 | -52 | -50 | -48 | -51 | -55 | -60 | -64 | -69 | -72 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -73 | -74 | -75 | -72 | -68 | -63 | -57 | -52 | -47 | -41 | -36 | -32 | -27 | -24 | -22 | -18 | -14 | -10 | -7 | -6 |
| -3 | 0 | 2 | 6 | 9 | 13 | 17 | 21 | 23 | 24 | 25 | 25 | 23 | 21 | 19 | 17 | 15 | 14 | 15 | 15 |
| 17 | 19 | 23 | 30 | 37 | 41 | 44 | 48 | 49 | 48 | 48 | 48 | 48 | 49 | 49 | 49 | 49 | 49 | 47 | 45 |
| 44 | 39 | 33 | 28 | 24 | 20 | 16 | 11 | 6 | 1 | -3 | -6 | -9 | -14 | -20 | -24 | -28 | -32 | -35 | -36 |
| -37 | -38 | -37 | -35 | -33 | -31 | -29 | -27 | -23 | -18 | -17 | -14 | -10 | -7 | -4 | -1 | 1 | 3 | 6 | 8 |
| 10 | 13 | 15 | 17 | 17 | 17 | 16 | 14 | 12 | 5 | 3 | 2 | 1 | 4 | 7 | 11 | 12 | 13 | 15 | 18 |
| 20 | 22 | 24 | 25 | 26 | 27 | 25 | 23 | 20 | 16 | 10 | 3 | -1 | -4 | -7 | -10 | -13 | -17 | -21 | -25 |
| -22 | -21 | -18 | -14 | -12 | -9 | -7 | -5 | -3 | -2 | 0 | 2 | 5 | 8 | 9 | 11 | 10 | 9 | 9 | 10 |
| 12 | 13 | 17 | 20 | 23 | 25 | 24 | 23 | 22 | 21 | 21 | 21 | 20 | 21 | 19 | 16 | 14 | 12 | 9 | 7 |
| 5 | 2 | -1 | -4 | -7 | -11 | -15 | -20 | -26 | -32 | -38 | -42 | -46 | -50 | -55 | -59 | -61 | -62 | -61 | -60 |
| -59 | -58 | -56 | -55 | -54 | -52 | -51 | -49 | -47 | -45 | -42 | -39 | -36 | -34 | -31 | -27 | -24 | -18 | -10 | -3 |
| 11 | 17 | 24 | 31 | 39 | 46 | 50 | 54 | 56 | 60 | 62 | 64 | 66 | 66 | 63 | 60 | 58 | 56 | 52 | 48 |
| 44 | 41 | 37 | 32 | 28 | 24 | 20 | 16 | 12 | 7 | 3 | 0 | -4 | -8 | -13 | -16 | -18 | -21 | -22 | -21 |
| -17 | -13 | -10 | -6 | -3 | -1 | 1 | 1 | 14 | -1 | -1 | -1 | 0 | 2 | 3 | 2 | 1 | 1 | 1 | 2 |
| 4 | 6 | 9 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 12 | 10 | 6 | 5 | 3 | 4 | 4 | 5 |
| 7 | 10 | 12 | 13 | 15 | 17 | 19 | 20 | 21 | 18 | 14 | 8 | 5 | 0 | -5 | -12 | -18 | -24 | -27 | -30 |
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| 23 | 25 | 26 | 25 | 24 | 22 | 20 | 15 | 9 | 3 | -5 | -16 | -20 | -23 | -27 | -29 | -29 | -28 | -27 | -25 |
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| -1 | -2 | -4 | -3 | -3 | -2 | -2 | -2 | -2 | -1 | -1 | -1 | -1 | -1 | -3 | -4 | -5 | -5 | -6 | -6 |
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| 12 | 12 | 13 | 14 | 17 | 18 | 19 | 19 | 18 | 17 | 17 | 18 | 19 | 21 | 22 | 23 | 22 | 21 | 19 | 17 |
| 15 | 13 | 12 | 10 | 9 | 9 | 8 | 8 | 8 | 8 | 7 | 7 | 6 | 5 | 5 | 5 | 3 | 2 | -1 | -4 |
| -5 | -7 | -8 | -6 | -4 | -1 | 0 | 1 | 2 | 3 | 4 | 4 | 2 | 1 | 0 | -2 | -4 | -7 | -11 | -16 |
| -19 | -23 | -27 | -31 | -32 | -32 | -33 | -34 | -35 | -36 | -38 | -39 | -39 | -38 | -37 | -35 | -31 | -26 | -19 | -13 |
| -9 | -5 | -2 | 1 | 1 | -2 | -3 | -4 | -4 | -5 | -6 | -5 | -2 | -2 | -3 | -5 | -7 | -9 | -9 | -8 |
| -7 | -5 | -3 | -1 | 1 | 2 | 0 | -1 | -3 | -4 | -6 | -6 | -7 | -7 | -6 | -4 | -2 | 0 | 2 | 4 |
| 7 | 11 | 14 | 16 | 19 | 20 | 23 | 24 | 23 | 22 | 19 | 17 | 14 | 11 | 9 | 7 | 5 | 2 | -2 | -5 |
| -8 | -11 | -11 | -12 | -10 | -9 | -6 | -3 | 0 | 2 | 3 | 6 | 9 | 11 | 14 | 16 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 27 | 24 | 20 | 17 | 12 | 8 | 4 | 0 | -4 | -7 |
| -11 | -13 | -16 | -18 | -19 | -17 | -16 | -14 | -14 | -14 | -13 | -13 | -12 | -12 | -11 | -9 | -8 | -8 | -7 | -7 |
| -6 | -7 | -7 | -6 | -5 | -4 | -4 | -3 | -3 | 0 | 0 | 0 | -1 | -2 | -4 | -4 | -5 | -5 | -6 | -6 |
| -7 | -9 | -10 | -11 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -17 | -16 | -15 | -13 | -11 | -9 | -8 | -6 | -4 |
| -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -6 | -7 | -10 | -13 | -15 | -15 | -15 | -15 | -14 | -13 |
| -13 | -12 | -11 | -11 | -10 | -7 | -5 | -3 | 0 | 2 | 3 | 5 | 7 | 9 | 9 | 10 | 11 | 12 | 13 | 12 |
| 13 | 15 | 17 | 19 | 20 | 23 | 25 | 25 | 25 | 25 | 24 | 24 | 23 | 22 | 21 | 20 | 18 | 15 | 12 | 9 |
| 8 | 8 | 7 | 8 | 8 | 9 | 7 | 4 | 2 | -2 | -5 | -8 | -10 | -12 | -11 | -11 | -10 | -10 | -9 | -8 |
| -7 | -5 | -4 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 3 |
| -11 | -10 | -9 | -9 | -8 | -6 | -5 | -6 | -6 | -6 | -8 | -10 | -10 | -10 | -10 | -11 | -13 | -14 | -13 | -12 |
| 0 | 1 | 0 | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | -1 | 0 | 1 | 1 | 2 | 3 | 4 |
| 5 | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 |
| 8 | 8 | 7 | 7 | 6 | 5 | 4 | 4 | 5 | 5 | 5 | 4 | 3 | 2 | 1 | 1 | 1 | 0 | 0 | 0 |
| 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 |
| 5 | 5 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 9 | 8 | 7 | 7 | 6 | 5 | 4 | 4 | 4 | 4 | 4 |
| 5 | 4 | 1 | -1 | -5 | -7 | -9 | -12 | -15 | -17 | -19 | -19 | -20 | -21 | -22 | -23 | -23 | -21 | -21 | 4 |
| -19 | -17 | -15 | -14 | -12 | -9 | -5 | -3 | -1 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 5 | 5 | 5 | -20 |
| 8 | 10 | 11 | 10 | 10 | 9 | 6 | 6 | 5 | 2 | 0 | -1 | -2 | -2 | -1 | 0 | 1 | 0 | -2 | 6 |
| 1 | 3 | 4 | 5 | 5 | 6 | 6 | 6 | 5 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 11 | 13 |
| 15 | 16 | 17 | 17 | 16 | 15 | 14 | 14 | 10 | 9 | 7 | 5 | 4 | 4 | 2 | -1 | -4 | -4 | -3 | -2 |
| -1 | -1 | 2 | 3 | 3 | 3 | 0 | -2 | -3 | -4 | -4 | -4 | -3 | -2 | -1 | -1 | -2 | -3 | -2 | -1 |
| -1 | -2 | -2 | -2 | -3 | -3 | -5 | -7 | -9 | -11 | -12 | -14 | -15 | -13 | -12 | -11 | -10 | -9 | -8 | -7 |
| -6 | -6 | -4 | -3 | -2 | 0 | 1 | 1 | 2 | 3 | 5 | 5 | 5 | 6 | 9 | 10 | 10 | 10 | 7 | 5 |

[illegible]

IIV316 41.004-0 TORRANCE-GARDENA EARTHQUAKE NOV 14, 1941 - 0042 PST EPICENTER - 33 48 00N, 118 12 00W
STATION NO. 131 PUBLIC UTILITIES BLDG., LONG BEACH, CAL. COMP UP 33 46 11N, 118 11 35W
INSTR PERIOD = 0.099 SEC DAMPING = 0.574 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -8.5 CM/SEC/SEC AT 1.04 SEC VELO = 1.0 CM/SEC AT 20.82 SEC DISP = -0.6 CM AT 20.12 SEC

3333 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
INITIAL VELO = 0.17721 CM/SEC INITIAL DISP = 0.03624 CM

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -40 | -46 | -39 | -20 | -4 | 17 | 41 | 50 | 29 | 11 | -2 | -13 | -6 | 18 | 47 | 35 | -22 | -68 | -64 | -32 |
| -20 | -18 | -22 | 4 | 19 | 30 | 40 | 45 | 54 | 29 | -17 | -71 | -71 | -31 | -30 | -15 | -7 | -1 | -17 | 8 |
| 39 | 71 | 45 | 21 | 0 | 22 | 29 | 33 | 39 | 35 | -10 | -57 | -85 | -25 | 40 | 62 | 44 | 18 | -46 | -67 |
| -25 | -17 | -17 | -18 | -22 | -36 | 6 | 34 | 51 | 32 | 19 | 9 | 13 | 26 | 53 | 12 | 44 | -79 | -43 | 3 |
| 35 | 16 | -10 | -40 | -37 | -26 | -23 | -28 | -13 | 5 | 29 | 55 | 42 | 10 | 19 | 20 | -10 | -41 | -45 | -24 |
| -15 | 2 | -5 | -13 | -15 | -15 | 7 | 4 | -24 | -54 | -50 | -24 | -4 | -6 | -12 | 15 | 20 | 19 | -3 | -19 |
| -22 | -23 | -21 | -18 | -10 | -6 | -23 | -27 | -10 | -1 | 6 | 29 | 48 | 21 | -22 | -42 | -8 | 34 | 59 | 51 |
| 25 | -20 | -13 | -3 | 19 | 29 | 49 | 36 | 19 | 3 | -3 | -11 | -26 | -38 | -23 | -11 | 4 | 15 | 27 | 16 |
| 4 | 3 | 23 | 15 | 8 | 2 | 16 | -4 | -16 | -14 | -9 | -24 | -41 | -44 | -24 | -4 | 14 | 10 | 0 | -24 |
| -38 | -41 | -8 | 8 | 23 | 12 | -2 | -12 | -7 | 9 | 9 | 2 | -1 | -6 | 0 | 30 | 60 | 81 | 66 | 36 |
| -25 | -61 | -43 | -14 | 4 | 20 | 27 | 33 | 28 | 20 | 10 | -4 | -22 | -13 | 5 | 17 | 17 | 14 | -3 | -16 |
| -24 | -24 | -25 | -19 | -7 | 7 | 20 | 25 | 27 | 16 | 19 | 29 | 20 | 6 | -10 | -21 | -12 | -9 | -7 | -2 |
| 1 | 8 | 1 | -9 | -18 | -29 | -38 | -26 | -8 | 4 | 12 | 22 | 22 | 13 | 8 | 0 | 14 | 3 | 6 | 4 |
| 2 | 9 | 15 | 24 | 30 | 22 | 16 | 2 | -25 | -32 | -52 | -50 | -31 | -12 | 3 | 8 | 14 | 5 | -2 | 0 |
| 19 | 44 | 49 | 56 | 43 | 20 | -7 | -27 | -43 | -53 | -29 | -6 | 15 | 26 | 38 | 46 | 43 | 31 | 18 | -24 |
| -44 | -68 | -56 | -26 | -14 | 19 | 26 | 25 | -4 | -34 | -37 | -46 | -53 | -34 | -11 | 2 | 16 | 8 | 6 | 0 |
| 4 | 15 | 22 | 26 | 1 | -9 | -24 | -31 | -22 | -31 | -32 | -21 | -11 | 13 | 35 | 38 | 49 | 48 | 41 | 26 |
| 7 | -12 | -17 | -10 | 32 | 67 | 73 | 63 | 21 | -51 | -58 | -75 | -57 | -38 | -14 | 13 | 18 | 2 | -27 | -25 |
| -48 | -40 | -37 | -15 | 1 | 24 | 37 | 45 | 42 | 32 | 20 | -8 | -13 | -12 | 0 | 22 | 39 | 51 | 46 | 33 |
| 19 | 2 | -10 | -8 | -1 | 7 | -6 | -12 | -20 | -11 | -4 | 14 | 12 | -1 | -11 | -23 | -29 | -31 | -32 | -31 |
| -31 | -28 | -23 | -20 | -24 | -29 | -35 | -39 | -26 | -16 | 2 | 23 | 40 | 50 | 55 | 52 | 46 | 39 | 30 | 24 |
| 24 | 22 | 23 | 17 | 15 | 15 | 20 | 29 | 37 | 44 | 44 | 35 | 26 | 14 | 4 | -8 | -6 | 1 | 8 | 6 |
| 3 | -2 | -10 | -20 | -26 | -22 | -9 | -3 | 4 | 10 | 4 | -7 | -21 | -37 | -52 | -54 | -44 | -33 | -13 | -3 |
| 8 | 17 | 23 | 18 | 13 | 5 | -1 | 1 | 11 | 17 | 29 | 23 | 14 | 4 | -5 | -18 | -30 | -34 | -27 | -25 |
| -24 | -31 | -33 | -37 | -40 | -42 | -40 | -36 | -30 | -29 | -25 | -24 | -21 | -20 | -18 | -15 | -12 | -16 | -18 | -21 |
| -19 | -12 | -5 | 4 | 11 | 14 | 14 | 14 | 10 | 3 | -6 | -11 | -17 | -20 | -16 | -7 | 11 | 21 | 24 | 36 |
| 30 | 25 | 24 | 32 | 37 | 46 | 49 | 49 | 42 | 30 | 18 | 10 | 4 | 2 | 5 | 6 | 6 | 4 | 1 | -3 |
| -8 | -11 | -15 | -16 | -17 | -18 | -20 | -25 | -29 | -38 | -43 | -35 | -27 | -20 | -10 | -1 | 2 | 0 | -2 | -6 |
| -12 | -21 | -21 | -14 | -5 | 2 | 7 | 11 | 15 | 13 | 7 | 2 | -5 | 3 | 10 | 14 | 20 | 21 | 19 | 20 |
| 22 | 26 | 28 | 32 | 38 | 42 | 38 | 35 | 30 | 26 | 22 | 20 | 20 | 19 | 18 | 17 | 18 | 17 | 18 | 10 |
| 1 | -4 | -13 | -23 | -24 | -20 | -19 | -16 | -15 | -17 | -20 | -21 | -21 | -21 | -17 | -14 | -8 | -8 | -6 | -7 |
| -9 | -10 | -10 | -10 | -9 | -8 | -7 | -7 | -6 | -3 | 1 | 4 | 9 | 14 | 14 | 11 | 13 | 16 | 18 | 22 |
| 23 | 24 | 24 | 24 | 24 | 23 | 22 | 20 | 18 | 14 | 9 | 4 | 1 | -2 | -2 | -2 | -6 | -11 | -20 | -27 |
| -34 | -39 | -42 | -38 | -34 | -23 | -19 | -8 | 1 | 6 | 13 | 18 | 16 | 15 | 12 | 9 | 6 | 4 | 1 | -1 |
| -3 | -2 | -1 | 1 | 5 | 7 | 9 | 5 | 2 | -5 | -13 | -19 | -25 | -32 | -34 | -34 | -31 | -30 | -29 | -26 |
| -22 | -20 | -20 | -19 | -18 | -15 | -11 | -7 | -5 | -3 | -4 | -3 | -3 | -2 | 2 | -3 | 15 | 19 | 23 | 26 |
| 28 | 28 | 29 | 28 | 28 | 25 | 22 | 17 | 14 | 9 | 5 | 0 | -2 | -3 | -5 | -3 | -1 | 1 | 3 | 5 |
| 4 | 1 | 1 | -5 | -7 | -7 | -4 | -3 | -1 | -1 | -2 | -4 | -5 | -3 | -9 | -12 | -14 | -16 | -18 | -22 |
| -26 | -29 | -30 | -33 | -33 | -31 | -30 | -26 | -23 | -19 | -14 | -10 | -6 | -3 | 0 | 4 | 8 | 13 | 18 | 23 |
| 24 | 24 | 24 | 24 | 22 | 20 | 18 | 14 | 13 | 12 | 11 | 9 | 7 | 5 | 3 | 1 | -1 | -3 | -5 | -7 |
| -11 | -14 | -18 | -17 | -15 | -12 | -8 | -5 | -3 | 0 | 1 | -1 | -2 | 1 | 4 | 8 | 12 | 16 | 19 | 19 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 22 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 20 |
| 19 | 17 | 14 | 12 | 10 | 8 | 4 | 0 | -4 | -8 | -10 | -13 | -15 | -17 | -15 | -13 | -12 | -11 | -12 | -12 |
| -12 | -10 | -9 | -6 | -4 | -1 | 2 | 4 | 6 | 7 | 7 | 7 | 8 | 9 | 10 | 9 | 7 | 6 | 5 | 4 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5 | 6 | 8 | 8 | 7 | 5 | 4 | 2 | 1 | -2 | -5 | -12 | -16 | -18 | -20 | -21 | -23 | -24 | -25 | -24 |
| -21 | -20 | -17 | -15 | -13 | -10 | -9 | -9 | -8 | -8 | -8 | -7 | -7 | -6 | -7 | -7 | -8 | -8 | -8 | -7 |
| -6 | -6 | -6 | -6 | -6 | -5 | -4 | -4 | -4 | -4 | -5 | -8 | -12 | -15 | -18 | -21 | -23 | -25 | -25 | -24 |
| -23 | -21 | -18 | -15 | -10 | -6 | -3 | 0 | 2 | 4 | 6 | 8 | 8 | 8 | 8 | 7 | 6 | 5 | 4 | 3 |
| 3 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 11 | 12 | 14 | 15 | 17 | 18 | 19 | 21 | 22 | 24 |
| 24 | 21 | 19 | 16 | 12 | 9 | 2 | -1 | -1 | -2 | -2 | -2 | -2 | 1 | 5 | 5 | 5 | 5 | 3 | 3 |
| 3 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 7 | 9 | 13 | 17 | 19 | 21 | 22 | 23 | 23 | 24 | 25 | 25 |
| 25 | 25 | 23 | 18 | 16 | 14 | 13 | 14 | 14 | 14 | 13 | 13 | 12 | 11 | 10 | 10 | 9 | 9 | 8 | 7 |
| -22 | -22 | -23 | -19 | -23 | -22 | -26 | -26 | -25 | -23 | -22 | -22 | -21 | -21 | -21 | -21 | -21 | -21 | -21 | -21 |
| 16 | 15 | 12 | 11 | 9 | 6 | 4 | 2 | 0 | -2 | -3 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 6 | 8 |
| 8 | 9 | 9 | 9 | 8 | 8 | 7 | 6 | 5 | 4 | 2 | 0 | -3 | -6 | -10 | -11 | -11 | -12 | -12 | -13 |
| -15 | -17 | -19 | -21 | -21 | -22 | -21 | -19 | -17 | -14 | -11 | -11 | -10 | -9 | -9 | -8 | -8 | -8 | -7 | -6 |
| -5 | -4 | -2 | -1 | 1 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 0 | -2 | -3 | -1 | 0 | 2 | 3 |
| 4 | 5 | 5 | 6 | 6 | 7 | 8 | 7 | 6 | 5 | 3 | 1 | -1 | -3 | -5 | -5 | -5 | -5 | -4 | -4 |
| -3 | -4 | -5 | -7 | -8 | -10 | -12 | -13 | -12 | -11 | -10 | -8 | -7 | -4 | -2 | 0 | 3 | 6 | 9 | 13 |
| 16 | 18 | 20 | 22 | 24 | 24 | 24 | 25 | 27 | 28 | 29 | 30 | 29 | 27 | 25 | 22 | 18 | 14 | 9 | 6 |
| 5 | 3 | 2 | -1 | -3 | -4 | -5 | -6 | -6 | -6 | -5 | -3 | -2 | -1 | 0 | 1 | 1 | -1 | -2 | -4 |
| -5 | -7 | -8 | -9 | -10 | -11 | -11 | -11 | -10 | -9 | -9 | -9 | -9 | -9 | -8 | -7 | -7 | -6 | -6 | -5 |
| -4 | -4 | -2 | 0 | 2 | 3 | 6 | 9 | 10 | 10 | 10 | 10 | 9 | 9 | 8 | 7 | 4 | 4 | 5 | 5 |
| 6 | 5 | 5 | 4 | 2 | 0 | -2 | -5 | -7 | -9 | -11 | -13 | -14 | -16 | -17 | -19 | -21 | -21 | -20 | -19 |
| -17 | -16 | -15 | -14 | -13 | -12 | -10 | -10 | -10 | -10 | -10 | -10 | -11 | -16 | -18 | -19 | -20 | -22 | -25 | -26 |
| -24 | -22 | -21 | -19 | -18 | -16 | -14 | -12 | -8 | -5 | -3 | 0 | 2 | 5 | 7 | 9 | 11 | 12 | 14 | 16 |
| 18 | 22 | 24 | 25 | 25 | 27 | 29 | 30 | 32 | 35 | 35 | 34 | 34 | 33 | 31 | 28 | 25 | 23 | 20 | 18 |
| 18 | 17 | 16 | 15 | 13 | 9 | 9 | 8 | 7 | 4 | 2 | 0 | -4 | -8 | -9 | -11 | -12 | -14 | -16 | -17 |
| -17 | -17 | -17 | -16 | -16 | -13 | -11 | -10 | -9 | -7 | -6 | -4 | -2 | -1 | 0 | 2 | 4 | 5 | 8 | 11 |
| 12 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 10 | 9 | 8 | 7 | 5 | 4 | 3 | 2 | 1 | -1 | -2 | -1 |
| -1 | 0 | 1 | 1 | 1 | 3 | 4 | 5 | 6 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 3 | 3 |
| 4 | 2 | 1 | 0 | -1 | -3 | -5 | -7 | -6 | -5 | -4 | -5 | -7 | -8 | -9 | -10 | -10 | -10 | -11 | -13 |
| -14 | -15 | -16 | -17 | -18 | -20 | -21 | -22 | -21 | -20 | -20 | -20 | -20 | -21 | -21 | -21 | -21 | -20 | -19 | -18 |
| -16 | -15 | -13 | -12 | -10 | -8 | -5 | -3 | -1 | 1 | 4 | 7 | 9 | 10 | 12 | 13 | 17 | 19 | 19 | 21 |
| 21 | 21 | 21 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 13 | 12 | 10 | 8 | 5 | 2 | 2 | 1 | 1 | 1 |
| 1 | 1 | 0 | -1 | -2 | -3 | -3 | -2 | -3 | -2 | -1 | -1 | -1 | 0 | 0 | 1 | 2 | -1 | -2 | -3 |
| -1 | 0 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| -1 | 0 | 1 | 4 | 4 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 2 | 1 | 1 | 0 | 0 | -1 | -1 |
| -2 | -2 | -3 | -3 | -2 | -1 | -1 | 0 | 0 | 1 | 0 | -2 | -4 | -5 | -4 | -4 | -4 | -5 | -6 | -7 |
| -8 | -8 | -9 | -9 | -9 | -11 | -10 | -8 | -7 | -6 | -5 | -3 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 |
| -12 | -13 | -14 | -13 | -12 | -9 | -8 | -8 | -7 | -6 | -5 | -3 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 |
| 8 | 9 | 9 | 9 | 9 | 8 | 6 | 4 | 3 | 2 | 2 | 6 | 4 | 2 | 0 | -4 | -7 | -11 | -14 | -16 |
| 12 | 13 | 14 | 15 | 15 | 15 | 14 | 13 | 12 | 10 | 8 | 6 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 |
| -18 | -20 | -23 | -25 | -26 | -27 | -29 | -30 | -32 | -31 | -30 | -29 | -24 | -21 | -17 | -14 | -11 | -8 | -6 | -5 |
| -3 | 0 | 2 | 5 | 6 | 8 | 10 | 11 | 12 | 12 | 12 | 11 | 11 | 12 | 12 | 12 | 13 | 12 | 12 | 11 |
| 11 | 11 | 10 | 10 | 10 | 9 | 7 | 6 | 4 | 3 | 1 | -1 | -4 | -5 | -5 | -5 | -4 | -4 | -3 | -2 |
| -1 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 4 | 4 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |
| 1 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 0 | 0 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 2 | 1 | 1 |
| 0 | 6 | 6 | 6 | 7 | 8 | 9 | 10 | 11 | 10 | -4 | -3 | -2 | -1 | 0 | 1 | 1 | 2 | 3 | 5 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | -2 | -3 | -3 | -3 | -2 | 6 | 4 | 5 | 6 | 5 |
| 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| 0 | -1 | -2 | -3 | -4 | -5 | -6 | -6 | -6 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 |
| -8 | -9 | -10 | -10 | -9 | -6 | -4 | -3 | -2 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 5 |
| 0 | 0 | 0 | 0 | 0 | -1 | 0 | 1 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -2 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 0 | -1 | 0 | 1 | 2 | 2 | -3 | -4 | -3 | -2 |

[illegible]

[illegible]

IIV317 41.005.0 TORRANCE-GARDENA EARTHQUAKE NOV 14, 1941 - 0042 PST EPICENTER - 33 48 00N, 118 12 00W
STATION NO. 0000 CHAMBER OF COMMERCE, BSMT., LOS ANGELES, CAL. COMP S50E 34 02 20N, 118 15 36W
INSTR. PERIOD = 0.103 SEC DAMPING = 0.574 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -14.9 CM/SEC/SEC AT 9.08 SEC VELO = 1.3 CM/SEC AT 7.76 SEC DISP = 0.8 CM AT 47.90 SEC

3102 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

INITIAL VELO = 0.07281 CM/SEC INITIAL DISP = 0.06273 CM

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|
| 44 | 0 | -12 | -7 | 4 | 29 | 37 | 40 | 44 | 49 | 53 | 43 | 6 | -28 | -67 | -84 | -86 | -59 | -15 | 1 |
| 4 | 3 | -1 | -5 | -14 | -20 | -30 | -39 | -46 | -52 | -58 | -56 | -45 | -26 | -7 | 7 | 24 | 33 | 34 | 30 |
| 28 | 26 | 27 | 19 | 6 | -3 | -7 | -12 | -16 | -19 | -17 | 8 | 27 | 11 | -4 | 1 | 22 | 45 | 42 | 39 |
| 27 | 20 | 8 | 0 | -9 | -21 | -27 | -35 | -37 | -28 | -13 | 7 | 15 | 15 | 21 | 27 | 35 | 38 | 30 | 22 |
| 18 | 27 | 40 | 44 | 34 | 26 | 3 | -11 | -15 | -26 | -39 | -50 | -47 | -37 | -27 | -24 | -14 | 6 | 18 | 10 |
| 3 | 1 | 13 | 14 | 1 | -23 | -37 | -32 | -9 | 6 | 14 | 15 | 12 | 7 | -4 | -14 | -10 | 2 | 21 | 29 |
| 21 | 6 | -2 | 2 | 1 | -4 | -11 | -18 | -21 | -9 | 15 | 29 | 35 | 28 | 13 | -2 | -21 | -31 | -27 | 0 |
| 21 | 29 | 22 | 19 | 15 | 12 | 5 | -6 | -16 | -19 | -1 | 10 | 7 | -12 | -16 | -6 | 9 | 12 | -11 | -30 |
| -49 | -40 | -13 | 9 | 23 | 33 | 31 | 24 | -3 | -9 | -4 | 4 | 14 | 8 | 5 | 0 | -1 | -7 | -8 | -14 |
| -20 | -32 | -40 | -43 | -27 | 0 | 20 | 49 | 77 | 82 | 78 | 33 | 2 | -20 | -46 | -78 | -74 | -70 | -54 | -37 |
| -27 | -8 | 6 | 11 | 0 | -6 | -11 | -10 | -10 | -12 | -16 | -21 | -30 | -33 | -33 | -34 | -25 | -19 | -13 | -5 |
| 2 | 7 | 13 | 21 | 34 | 40 | 42 | 39 | 37 | 36 | 36 | 35 | 35 | 39 | 45 | 49 | 50 | 49 | 48 | 46 |
| 45 | 41 | 31 | 24 | 17 | 15 | 14 | 7 | -6 | -14 | -15 | -8 | 1 | -5 | -17 | -36 | -46 | -54 | -56 | -46 |
| -27 | -17 | 6 | 26 | 29 | 23 | 4 | -16 | -29 | -36 | -33 | -22 | -10 | -1 | 7 | 13 | 15 | 14 | 4 | -15 |
| -20 | -18 | -5 | 6 | 19 | 33 | 40 | 41 | 42 | 42 | 40 | 31 | 3 | -24 | -45 | -62 | -62 | -64 | -61 | -63 |
| -64 | -66 | -65 | -59 | -37 | -14 | -9 | 3 | 10 | 13 | 12 | 11 | 9 | 10 | 13 | 15 | 15 | 15 | 15 | 15 |
| 10 | 5 | -4 | -8 | -10 | -11 | -11 | -12 | -10 | -2 | 19 | 52 | 66 | 64 | 50 | 29 | 6 | -18 | -30 | -38 |
| -42 | -39 | -33 | -17 | 10 | 17 | 17 | 13 | 12 | 10 | 5 | -5 | -8 | -3 | 25 | 53 | 50 | 44 | 40 | 48 |
| 60 | 45 | 13 | -18 | -45 | -42 | -39 | -29 | -8 | 23 | 37 | 30 | 21 | 15 | 11 | 8 | -5 | -28 | -27 | -20 |
| 26 | 53 | 69 | 88 | 91 | 87 | 71 | 41 | 10 | -15 | -41 | -57 | -60 | -65 | -63 | -55 | -43 | -27 | -22 | -24 |
| -32 | -41 | -38 | -20 | -1 | 16 | 25 | 30 | 42 | 52 | 51 | 38 | 21 | 7 | -25 | -29 | -40 | -48 | -59 | -66 |
| -76 | -80 | -92 | -61 | -2 | 15 | 78 | 89 | 103 | 88 | 84 | 72 | 65 | 50 | 30 | 6 | -9 | -32 | -42 | -44 |
| -20 | 12 | 38 | 52 | 38 | 10 | -12 | -44 | -69 | -83 | -96 | -111 | -134 | -148 | -149 | -114 | -66 | -44 | -11 | 9 |
| 31 | 51 | 59 | 62 | 60 | 58 | 56 | 60 | 65 | 75 | 81 | 75 | 64 | 42 | 12 | -18 | -40 | -62 | -79 | -77 |
| -66 | -44 | -35 | -29 | -33 | -32 | -36 | -37 | -34 | -30 | -23 | -1 | 26 | 47 | 55 | 54 | 51 | 45 | 41 | 34 |
| 28 | 25 | 25 | 31 | 36 | 40 | 44 | 45 | 40 | 32 | 11 | -7 | -25 | -39 | -38 | -28 | -4 | 18 | 22 | 21 |
| 13 | -2 | -21 | -34 | -45 | -51 | -54 | -51 | -45 | -35 | -10 | 6 | 12 | 11 | -2 | -18 | -20 | -25 | -21 | -13 |
| 0 | 3 | 4 | 6 | 14 | 29 | 42 | 39 | 33 | 10 | -18 | -24 | -31 | -22 | -13 | -6 | 2 | 1 | 0 | -6 |
| -10 | -14 | -21 | -27 | -33 | -37 | -36 | -27 | -13 | 13 | 27 | 40 | 47 | 51 | 54 | 53 | 49 | 45 | 38 | 34 |
| 37 | 40 | 42 | 35 | 26 | 7 | -12 | -29 | -39 | -46 | -44 | -34 | -23 | -15 | -5 | -5 | -2 | -3 | 1 | 5 |
| 12 | 19 | 24 | 24 | 21 | 13 | -4 | -21 | -30 | -40 | -39 | -35 | -27 | -17 | -7 | 2 | 11 | 17 | 24 | 26 |
| 24 | 17 | 13 | 8 | 5 | 4 | -2 | -8 | -9 | -12 | -11 | -9 | 1 | 11 | 19 | 26 | 32 | 38 | 42 | 43 |
| 38 | 30 | 20 | 4 | -6 | -12 | -14 | -15 | -9 | -4 | 1 | 10 | 20 | 29 | 32 | 30 | 22 | 12 | -8 | -28 |
| -38 | -50 | -55 | -58 | -57 | -55 | -50 | -37 | -22 | -11 | 7 | 15 | 20 | 19 | 12 | 2 | -8 | -14 | -18 | -16 |
| -11 | -4 | 2 | 4 | 5 | 2 | -2 | -16 | -28 | -36 | -40 | -39 | -35 | -29 | -19 | -14 | -10 | -8 | -6 | -6 |
| -4 | -3 | -3 | 3 | 8 | 15 | 22 | 24 | 19 | 10 | 5 | 2 | 1 | 6 | 7 | 8 | 7 | 7 | 6 | 6 |
| 8 | 10 | 11 | 11 | 9 | 7 | 6 | 4 | 4 | 4 | 7 | 9 | 10 | 11 | 1 | 6 | 3 | 2 | 0 | 1 |
| 2 | 3 | 5 | 8 | 10 | 13 | 16 | 17 | 17 | 15 | 13 | 10 | 8 | 0 | -9 | -22 | -28 | -30 | -29 | -23 |
| -16 | -12 | -10 | -10 | -12 | -13 | -14 | -10 | -5 | 3 | 11 | 15 | 18 | 17 | 12 | 9 | 1 | -4 | -5 | 2 |
| 11 | 17 | 23 | 21 | 18 | 13 | 8 | 3 | -1 | -4 | -4 | -4 | -4 | -4 | -6 | -8 | -8 | -8 | -8 | -6 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|
| -4 | 1 | 5 | 10 | 17 | 23 | 28 | 30 | 28 | 26 | 21 | 16 | 7 | -2 | -10 | -15 | -19 | -21 | -20 | -19 |
| -15 | -13 | -8 | -2 | 2 | 6 | 7 | 8 | 7 | 8 | 7 | 8 | 8 | 9 | 11 | 12 | 14 | 13 | 8 | 3 |
| -2 | -6 | -8 | -11 | -15 | -17 | -18 | -20 | -20 | -20 | -18 | -17 | -10 | -5 | 0 | 2 | 4 | 5 | 5 | 4 |
| 4 | 7 | 9 | 11 | 8 | 5 | 1 | 0 | -2 | -2 | -2 | 0 | 2 | 5 | 7 | 9 | 5 | 3 | 1 | -1 |

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -2 | -2 | -2 | -2 | -1 | -3 | -4 | -4 | -3 | -4 | -8 | -11 | -15 | -17 | -18 | -18 | -18 | -15 | -12 | -9 | -7 | -7 |
| -6 | -6 | -6 | -6 | -2 | 3 | 6 | 9 | 11 | 9 | 3 | -2 | -7 | -10 | -12 | -14 | -14 | -16 | -13 | -11 | -10 | -9 |
| -8 | -8 | -8 | -8 | -8 | 3 | -7 | -5 | -5 | -3 | 0 | 8 | 14 | 19 | 24 | 28 | 28 | 30 | 31 | 31 | 28 | 23 |
| 15 | 9 | 0 | -7 | -14 | -18 | -25 | -23 | -25 | -25 | -22 | -18 | -14 | -10 | -4 | -4 | -4 | 0 | -1 | -3 | -6 | -11 |
| -11 | -7 | -7 | -5 | -1 | -1 | 4 | 9 | 14 | 18 | 22 | 25 | 26 | 27 | 28 | 27 | 27 | 25 | 22 | 20 | 18 | 16 |
| 17 | 16 | 15 | 12 | 10 | 10 | 8 | 6 | 4 | 4 | 4 | 3 | 4 | 7 | 8 | 11 | 11 | 12 | 12 | 12 | 11 | 9 |
| 8 | 6 | 4 | 3 | 6 | 6 | 8 | 10 | 12 | 13 | 12 | 12 | 11 | 9 | 5 | 2 | 2 | -3 | -7 | -11 | -14 | -16 |
| -16 | -16 | -12 | -10 | -7 | -25 | -6 | -6 | -5 | -4 | -2 | -4 | 7 | 11 | 15 | 17 | 17 | 17 | 17 | 14 | 9 | 4 |
| -3 | -9 | -9 | -21 | -25 | -26 | -26 | -28 | -29 | -28 | -26 | 24 | -22 | -19 | -15 | -9 | -9 | -3 | 2 | 6 | 8 | 11 |
| 13 | 15 | 14 | 13 | 10 | 8 | 5 | 4 | 5 | 4 | 3 | 2 | 4 | 6 | 8 | 8 | 8 | 7 | 5 | 3 | 2 | 1 |
| -1 | -2 | -4 | -7 | -9 | -12 | -16 | -20 | -18 | -20 | -23 | -23 | -20 | -19 | -16 | -12 | -12 | -10 | -5 | -3 | 1 | 4 |
| 5 | 4 | 3 | 2 | 2 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 7 | 10 | 11 | 12 | 12 | 11 | 9 | 7 | 5 | 3 |
| 2 | 1 | -1 | -3 | -5 | -6 | -8 | -5 | -12 | -14 | -17 | -20 | -23 | -23 | -25 | -24 | -24 | -22 | -17 | -12 | -10 | -5 |
| -3 | -2 | -3 | -3 | -4 | -5 | -4 | -5 | -5 | -6 | -5 | -5 | -4 | -3 | 0 | 2 | 2 | 4 | 5 | 4 | 3 | 0 |
| -3 | -3 | -6 | -6 | -7 | -7 | -8 | -7 | -8 | -7 | -5 | -3 | -1 | 2 | 4 | 6 | 6 | 4 | 2 | 1 | -1 | -3 |
| -4 | -5 | -6 | -7 | -8 | -7 | -6 | -7 | -7 | -6 | -5 | -2 | 0 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| 1 | 1 | 0 | -1 | -3 | -5 | -5 | -6 | -8 | -10 | -10 | -10 | -7 | -4 | -5 | -5 | -5 | -6 | -5 | -5 | -5 | -4 |
| -2 | 2 | 5 | 10 | 15 | 19 | 25 | 30 | 28 | 30 | 34 | 36 | 38 | 39 | 37 | 35 | 35 | 32 | 29 | 27 | 24 | 22 |
| 20 | 17 | 13 | 13 | 12 | 12 | 11 | 10 | 9 | 8 | 9 | 8 | 6 | 5 | 4 | 3 | 3 | 2 | 0 | -1 | -3 | -3 |
| -3 | -1 | -1 | 0 | 0 | -1 | -2 | -2 | -3 | -3 | -3 | -5 | -7 | -9 | -11 | -12 | -12 | -13 | -14 | -16 | -17 | -19 |
| -19 | -20 | -21 | -22 | -24 | -23 | -19 | -16 | -17 | -16 | -15 | -13 | -12 | -11 | -9 | -8 | -8 | -7 | -5 | -3 | -1 | 4 |
| 6 | 10 | 13 | 15 | 16 | 16 | 15 | 14 | 14 | 12 | 10 | 9 | 9 | 10 | 8 | 7 | 7 | 6 | 5 | 3 | 2 | -1 |
| -3 | -4 | -4 | -4 | -4 | -4 | -5 | -5 | -5 | -6 | -6 | -5 | -4 | -4 | -5 | -6 | -6 | -7 | -7 | -7 | -7 | -8 |
| -8 | -8 | -9 | -8 | -8 | -8 | -7 | -7 | -5 | -3 | 0 | 2 | 3 | 3 | 3 | 4 | 4 | 2 | 1 | 0 | -1 | -2 |
| 2 | 5 | 9 | 13 | 16 | 16 | 18 | 20 | 20 | 18 | 18 | 17 | 16 | 14 | 13 | 11 | 11 | 9 | 6 | 5 | 2 | 1 |
| -1 | -1 | -3 | -5 | -5 | -6 | -7 | -6 | -6 | -7 | -8 | -8 | -9 | -10 | -10 | -10 | -10 | -11 | -11 | -11 | -11 | -10 |
| -9 | -9 | -9 | -9 | -8 | -8 | -8 | -8 | -8 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -8 | -7 | -7 |
| -4 | -1 | 1 | 3 | 6 | 6 | 10 | 10 | 9 | 7 | 6 | 2 | 1 | -3 | -6 | -6 | -6 | -7 | -6 | -5 | -4 | -3 |
| -1 | 0 | 1 | 3 | 5 | 5 | 6 | 6 | 12 | 16</ | | | | | | | | | | | | |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -6 | 1 | 4 | 8 | 10 | 9 | 9 | 7 | 4 | 2 | 0 | -2 | -3 | -2 | -2 | -2 | 0 | 3 | 5 | 6 | 6 |
| 5 | 3 | -2 | -7 | -11 | -15 | -3 | -11 | -6 | 2 | 6 | 11 | 17 | 19 | 20 | 20 | 21 | 19 | 17 | 14 | 10 |
| 7 | 3 | 1 | 0 | -2 | 6 | -3 | -3 | -3 | -2 | 0 | 1 | 2 | 3 | 3 | 3 | 1 | 0 | -2 | -4 | -4 |
| -5 | -4 | -3 | 0 | 2 | -6 | 10 | 12 | 14 | 12 | 9 | 4 | 0 | -4 | -6 | -6 | -7 | -7 | -8 | -9 | -10 |
| -9 | -8 | -7 | -4 | -1 | 1 | 1 | -3 | -5 | -9 | -12 | -13 | -13 | -12 | -9 | 15 | 18 | 19 | 20 | 19 | 17 |
| 9 | 10 | 10 | 9 | 7 | 5 | 3 | 2 | 1 | 2 | 2 | 6 | 11 | 13 | 15 | 15 | 18 | 19 | 20 | 19 | 17 |
| 16 | 15 | 10 | 7 | 4 | 1 | -1 | -3 | -5 | -6 | -8 | -10 | -11 | -12 | -12 | -12 | -15 | -17 | -17 | -16 | -14 |
| -10 | -5 | -2 | 2 | 4 | 4 | 3 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | -1 | -3 | -4 | -5 | -8 |
| -10 | -11 | -12 | -12 | -10 | -7 | -5 | -4 | -3 | -3 | -4 | -5 | -6 | -6 | -5 | -5 | -4 | -3 | -1 | 2 | 5 |
| 7 | 8 | 9 | 8 | 8 | 7 | 7 | 6 | 4 | 1 | -2 | -5 | -8 | -12 | -16 | -16 | -16 | -16 | -15 | -13 | -10 |
| -8 | -5 | -3 | -1 | -1 | -1 | -1 | -1 | 0 | 5 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 1 | 0 | -1 | -1 |
| -1 | -2 | -2 | -1 | -1 | 0 | 0 | 3 | 4 | 5 | -6 | 7 | 9 | 10 | 10 | 10 | 9 | 8 | 6 | 4 | 2 |
| -1 | -2 | -2 | -3 | -3 | -3 | -3 | -4 | -5 | -6 | -6 | -6 | -8 | -8 | -8 | -8 | -6 | -4 | -2 | 0 | 0 |
| 0 | 0 | 0 | -1 | -2 | -2 | -2 | -3 | -2 | -2 | -2 | -1 | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 8 | 10 |
| 13 | 15 | 18 | 19 | 20 | 21 | 19 | 18 | 15 | 11 | 9 | 7 | 4 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 1 |
| 2 | 3 | 5 | 6 | 6 | 4 | 2 | -1 | -5 | -7 | -9 | -10 | -12 | -14 | -13 | -13 | -12 | -12 | -10 | -9 | -8 |
| -6 | -4 | -3 | -2 | 0 | 2 | 3 | 4 | 7 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 10 | 10 | 11 | 10 | 9 | 8 | 7 | 6 | 4 | 2 | 0 | -3 | -5 | -6 | -8 | -10 | -11 | -11 | -10 |
| -10 | -10 | -10 | -10 | -9 | -7 | -6 | -5 | -4 | -3 | -1 | -1 | -3 | -5 | -6 | -6 | -6 | -6 | -6 | -5 | -4 |
| -3 | -3 | -3 | -3 | -4 | -4 | -5 | -6 | -8 | -9 | -9 | -10 | -10 | -9 | -9 | -9 | -9 | -8 | -7 | -6 | -5 |
| -4 | -2 | -1 | 1 | 2 | 3 | 5 | 5 | 7 | 8 | 9 | 9 | 8 | 6 | 4 | 4 | 1 | -2 | -4 | -6 | -8 |
| -9 | -10 | -10 | -10 | -9 | -7 | -6 | -4 | -1 | 1 | 2 | 5 | 5 | 7 | 9 | 10 | 11 | 11 | 10 | 9 | 8 |
| 7 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | -11 | -12 | -11 | -10 | -9 | -9 | -7 | -4 | -3 | -1 | 1 |
| 7 | 5 | 3 | 2 | -1 | -2 | -4 | -6 | -8 | -10 | -4 | -4 | -1 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | -1 |
| 1 | 2 | 2 | 1 | 0 | -2 | -2 | -4 | -5 | -5 | 13 | 15 | 16 | 15 | 14 | 14 | 12 | 9 | 8 | 8 | 8 |
| -3 | -4 | -5 | -5 | -5 | -4 | -2 | 2 | 6 | 11 | 13 | 15 | 16 | 15 | 14 | 14 | 12 | 9 | 8 | 8 | 8 |
| 8 | 8 | 7 | 7 | 6 | 6 | 5 | 4 | 1 | -1 | -4 | -6 | -8 | -8 | -10 | -10 | -11 | -12 | -13 | -12 | -11 |
| -9 | -7 | -5 | -3 | -1 | 0 | 3 | 4 | 4 | -1 | -4 | -6 | -8 | -8 | -8 | -8 | -11 | -12 | -13 | -12 | -11 |
| -1 | -2 | -4 | -5 | -6 | -8 | -9 | -10 | -10 | -9 | -7 | -5 | -3 | -2 | 0 | 3 | 2 | 4 | 6 | 8 | 10 |
| 12 | 14 | 15 | 17 | 18 | 18 | 17 | 16 | 14 | 13 | 10 | 9 | 7 | 5 | 3 | 3 | 1 | -1 | -3 | -6 | -8 |
| -9 | -10 | -10 | -9 | -8 | -6 | -6 | -5 | -4 | -4 | -4 | -3 | -3 | -3 | -4 | -4 | -4 | -5 | -6 | -7 | -8 |
| -10 | -11 | -12 | -12 | -12 | -12 | -11 | -10 | -8 | -5 | -2 | -8 | -10 | -11 | -11 | -11 | -12 | -12 | -12 | -11 | -10 |
| 17 | 16 | 14 | 10 | 7 | 5 | 2 | 0 | -2 | -5 | -7 | -8 | -10 | -11 | -11 | -12 | -12 | -12 | -12 | -11 | -10 |
| -9 | -7 | -6 | -4 | -2 | -1 | -1 | 1 | 2 | 4 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| 5 | 4 | 2 | 0 | -1 | -1 | -2 | -3 | -3 | -4 | -3 | -1 | 0 | 2 | 5 | 5 | 7 | 9 | 10 | 10 | 11 |
| 11 | 9 | 8 | 7 | 5 | 4 | 3 | 1 | -1 | -2 | -4 | -5 | -7 | -9 | -9 | -10 | -10 | -11 | -12 | -13 | -14 |
| -14 | -14 | -14 | -14 | -14 | -14 | -13 | -10 | -7 | -5 | -2 | 1 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 16 | 17 | 18 | 17 | 17 | 14 | 12 | 9 | 6 | 4 | 2 | 2 | 0 | -3 | -5 | -6 | -6 | -7 |
| -7 | -7 | -7 | -6 | -6 | -6 | -6 | -6 | -4 | -4 | -4 | -6 | -6 | -6 | -7 | -7 | -7 | -7 | -7 | -8 | -8 |
| -8 | -8 | -8 | -9 | -9 | -10 | -11 | -12 | -12 | -13 | -13 | -14 | -13 | -13 | -12 | -12 | -9 | -8 | -5 | -5 | -4 |
| -3 | -2 | -2 | -2 | -1 | -1 | 0 | 3 | 4 | 5 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 7 |
| -3 | -4 | -6 | -7 | -8 | -9 | -8 | -8 | -8 | -7 | -6 | -4 | -3 | -1 | -1 | 0 | 0 | 3 | 3 | 1 | -1 |
| -3 | -4 | -6 | -7 | -7 | -7 | -6 | -6 | -6 | -6 | -6 | -4 | -3 | -3 | 2 | 2 | 1 | -1 | -2 | 2 | -2 |
| -2 | -2 | -2 | -3 | -3 | -3 | -3 | -5 | -6 | -6 | -6 | -6 | -6 | -6 | -7 | -7 | -7 | -7 | -6 | -4 | -2 |
| -1 | 2 | 3 | 4 | 5 | 5 | 8 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 11 | 10 | 9 | 9 | 9 | 7 | 6 |
| -15 | -15 | -15 | -15 | -15 | -14 | -13 | -11 | -9 | -7 | -7 | -8 | -9 | -10 | -10 | -10 | -12 | -13 | -13 | -14 | -15 |
| 6 | 6 | 4 | 4 | 3 | 3 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 |
| 3 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 10 | 11 | 11 | 10 | 8 | 7 | 6 | 6 | 4 | 3 | 0 | -2 | -3 |
| -5 | -7 | -9 | -9 | -10 | -11 | -11 | -11 | -11 | -10 | -8 | -6 | -4 | -3 | -1 | -1 | 0 | 0 | 1 | 3 | 4 |
| 5 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 7 | 6 | 5 | 5 | 3 | 2 | 1 | -1 | -3 | -6 | -7 |
| -8 | -10 | -10 | -11 | -11 | -11 | -10 | -9 | -8 | -7 | -4 | -3 | 0 | 4 | 4 | 6 | 6 | 7 | 9 | 10 | 10 |
| 10 | 9 | 9 | 7 | 6 | 6 | 5 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | -1 | -2 | -2 | -2 | -2 | -2 | -2 |
| -1 | -1 | -1 | -1 | -1 | -2 | -3 | -3 | -4 | -4 | -5 | -5 | -6 | -6 | -7 | -7 | -7 | -7 | -6 | -4 | -6 |

[illegible]

| | | | | | | | | | | | | | | | | | | |
|---|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|----|---|
| 4 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 4 | 4 | 4 | 3 | 2 | 1 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | -1 | -1 | -1 | -2 | -3 | -3 | -4 | -4 | -4 | -4 | -4 | 1 | 1 | 0 | 0 | 0 | -1 | 0 |

IIV317 41.005.0 TORRANCE-GARDENA EARTHQUAKE NOV 14, 1941 - 0042 PST EPICENTER - 33 48 00N, 118 12 00W
STATION NO. 0000 CHAMBER OF COMMERCE, BSMT., LOS ANGELES, CAL. COMP UP 34 02 20N, 118 15 36W
INSTR PERIOD = 0.101 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -6.7 CM/SEC/SEC AT 0.0 SEC VELO = -0.8 CM/SEC AT 11.58 SEC DISP = 0.4 CM AT 46.10 SEC

INITIAL VELO = -0.01410 CM/SEC INITIAL DISP = 0.05809 CM
3105 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -67 | -53 | -38 | -12 | 10 | 21 | 28 | 30 | 34 | 41 | 34 | 25 | 19 | 14 | 10 | 5 | 15 | 31 | 36 | 5 |
| -24 | -35 | -30 | -32 | -33 | -16 | 13 | 37 | 34 | 19 | 6 | -8 | -18 | -19 | -14 | -15 | -20 | -21 | -14 | -10 |
| -13 | -26 | -30 | -20 | -3 | 9 | 2 | -11 | -9 | 2 | 10 | 10 | 3 | -9 | -23 | -36 | -26 | -8 | 0 | 6 |
| 8 | 17 | 29 | 36 | 26 | 10 | 2 | 27 | 55 | 44 | 8 | -29 | -48 | -45 | -35 | -21 | -9 | 3 | 11 | 17 |
| 5 | -5 | -12 | -12 | -22 | -36 | 1 | 15 | 1 | 9 | 12 | 16 | 17 | 13 | 8 | 2 | -5 | -11 | -16 | -22 |
| -20 | -1 | 25 | 43 | 37 | 15 | 9 | 16 | 20 | 14 | 6 | -6 | -19 | -22 | -18 | -23 | -29 | -25 | -11 | 0 |
| 1 | 0 | -3 | -4 | 0 | -7 | -11 | -16 | -11 | 5 | 25 | 35 | 34 | 26 | 12 | 0 | -3 | -2 | -1 | 4 |
| 9 | 17 | 14 | 8 | 2 | -3 | -4 | -6 | -2 | 1 | 8 | 13 | 11 | 3 | -5 | -10 | -13 | -14 | -12 | -7 |
| -1 | 2 | -2 | -9 | 0 | 14 | 24 | 14 | -1 | -14 | -27 | -20 | -11 | -5 | 1 | 2 | 2 | 5 | 10 | 19 |
| 29 | 26 | 15 | 6 | 4 | 12 | 17 | 18 | 12 | 7 | 5 | 13 | 21 | 27 | 23 | 9 | 0 | -12 | -19 | -24 |
| -27 | -20 | -9 | 4 | 14 | 11 | -5 | -21 | -25 | -30 | -30 | -25 | -10 | 16 | 31 | 36 | 26 | 19 | 18 | 22 |
| 15 | -2 | -15 | -19 | -12 | -3 | 6 | 20 | 33 | 41 | 30 | 14 | 4 | -9 | -19 | -29 | -34 | -40 | -36 | -22 |
| -15 | -11 | -10 | -8 | 0 | 7 | 17 | 10 | -5 | -27 | -43 | -54 | -41 | -30 | -25 | -24 | -18 | -4 | 12 | 19 |
| 23 | 24 | 22 | 19 | 9 | 1 | -6 | -9 | -5 | 12 | 33 | 45 | 53 | 37 | 24 | 10 | 0 | -8 | -14 | -11 |
| -5 | 2 | 3 | -1 | -4 | -3 | 2 | 7 | 13 | 16 | 14 | 9 | 6 | 7 | 3 | -4 | -14 | -25 | -25 | -15 |
| -6 | -3 | -6 | -7 | -8 | -3 | -8 | -9 | -8 | -5 | -1 | 3 | 6 | 7 | -1 | -10 | -18 | -16 | -14 | -16 |
| -14 | -1 | 10 | 23 | 31 | 27 | 24 | 21 | 22 | 18 | 13 | 9 | 7 | 8 | -26 | -3 | -7 | -9 | 1 | 13 |
| 27 | 44 | 45 | 37 | 17 | -17 | -38 | -46 | -49 | -51 | -55 | -50 | -41 | -29 | -36 | -29 | -29 | -21 | 1 | 18 |
| 26 | 14 | 0 | -5 | -9 | -8 | -2 | 6 | 15 | 22 | 26 | 22 | 20 | 15 | 11 | 6 | 2 | -3 | -2 | 7 |
| 20 | 31 | 25 | 7 | -8 | -17 | -17 | -12 | -4 | 9 | 31 | 43 | 42 | 30 | 12 | -3 | -3 | -1 | 5 | 5 |
| -1 | -3 | -7 | -13 | -27 | -39 | -48 | -46 | -33 | -23 | -14 | -10 | -6 | -3 | 3 | 10 | 13 | 15 | 16 | 20 |
| 29 | 40 | 36 | 23 | 9 | -11 | -15 | -18 | -16 | -16 | -14 | -11 | -12 | -17 | -20 | -21 | -18 | -14 | -8 | 9 |
| 22 | 40 | 51 | 57 | 54 | 43 | 26 | 6 | -5 | -6 | -3 | 2 | 0 | -10 | -21 | -28 | -30 | -29 | -26 | -25 |
| -26 | -24 | -20 | -13 | -4 | 9 | 22 | 35 | 48 | 54 | 52 | 46 | 39 | 26 | 10 | -9 | -16 | -21 | -28 | -31 |
| -36 | -38 | -32 | -27 | -16 | -2 | 9 | 17 | 27 | 30 | 28 | 23 | 15 | 6 | -7 | -24 | -33 | -31 | -19 | -9 |
| 8 | 22 | 27 | 27 | 17 | 2 | -13 | -30 | -38 | -44 | -40 | -36 | -24 | -14 | -9 | -11 | -17 | -15 | -10 | -5 |
| -4 | -8 | -11 | -14 | -18 | -20 | -25 | -28 | -32 | -29 | -23 | -17 | -6 | 8 | 24 | 34 | 43 | 47 | 52 | 52 |
| 47 | 35 | 21 | 13 | 9 | 6 | 5 | 7 | 13 | 17 | 15 | 10 | 1 | -13 | -22 | -21 | -20 | -16 | -12 | -10 |
| -12 | -14 | -16 | -19 | -21 | -22 | -22 | -22 | -20 | -19 | -18 | -22 | -24 | -26 | -28 | -25 | -22 | -16 | -9 | 6 |
| 15 | 23 | 28 | 32 | 37 | 42 | 46 | 45 | 41 | 37 | 31 | 27 | 21 | 14 | 5 | -2 | -5 | -5 | -2 | -1 |
| 0 | -1 | 3 | 7 | 9 | 11 | 13 | 13 | 12 | 11 | 8 | 5 | 4 | 2 | 0 | -2 | -7 | -13 | -20 | -26 |
| -30 | -28 | -27 | -27 | -22 | -15 | -8 | 1 | 7 | 13 | 14 | 15 | 14 | 13 | 11 | 9 | 6 | 5 | 7 | 11 |
| 15 | 15 | 14 | 12 | 9 | 6 | 2 | -1 | -5 | -9 | -13 | -16 | -18 | -20 | -18 | -17 | -14 | -10 | -5 | 0 |
| 7 | 14 | 16 | 14 | 10 | 2 | -3 | -8 | -13 | -17 | -19 | -20 | -18 | -17 | -13 | -6 | 3 | 11 | 21 | 30 |
| 39 | 33 | 22 | 5 | -9 | -19 | -24 | -21 | -16 | -9 | 0 | 8 | 14 | 16 | 14 | 12 | 10 | 5 | 2 | 0 |
| -2 | -2 | -3 | -4 | -4 | -5 | -5 | -6 | -8 | -10 | -11 | -13 | -16 | -17 | -16 | -14 | -13 | -15 | -17 | -19 |
| -19 | -17 | -13 | -8 | -4 | 2 | 7 | 12 | 16 | 18 | 19 | 19 | 19 | 16 | 11 | 7 | 3 | 2 | 6 | 12 |
| 22 | 30 | 29 | 21 | 11 | -10 | -21 | -31 | -33 | -31 | -25 | -17 | -10 | -7 | -8 | -10 | -10 | -9 | -8 | -7 |
| -6 | -5 | -2 | 2 | 7 | 12 | 20 | 25 | 26 | 26 | 23 | 18 | 12 | 8 | 4 | 4 | 7 | 10 | 10 | 9 |
| 9 | 10 | 12 | 14 | 12 | 8 | 4 | -1 | -4 | -9 | -11 | -13 | -13 | -13 | -13 | -13 | -11 | -10 | -8 | -5 |
| -3 | -1 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 4 | 6 | 9 | 9 | 12 | 15 | 19 | 23 | 24 | 24 | 20 |
| 16 | 12 | 8 | 3 | -1 | -4 | -5 | -9 | -11 | -12 | -12 | -10 | -8 | -4 | 0 | 3 | 5 | 7 | 8 | 7 |
| 8 | 6 | 6 | 5 | 4 | 4 | 1 | 1 | 1 | 0 | -1 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 5 |
| 5 | 1 | -1 | -2 | -5 | -7 | -9 | -11 | -13 | -13 | -11 | -11 | -10 | -9 | -11 | -13 | -16 | -18 | -21 | -23 |

6 2 -6
6 2 -6
5 2 -7
6 1 -8
6 1 -8
6 0
6 -1
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4 -2
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4 -2
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3 -4
3 -5
2 -5
2 -6
2 -6

11V318 52.004.0 KERN COUNTY EARTHQUAKE JUL 21, 1952 - 0453 PDT EPICENTER - 35 00 00N, 119 02 00W
STATION NO. 134 HOLLYWOOD STORAGE CO., PENTHOUSE, HOLLYWOOD, CAL. COMP SOUTH 34 05 00N, 118 20 00W
INSTR PERIOD = 0.046 SEC DAMPING = 0.574 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACN = -113.3 CM/SEC/SEC AT 18.76 SEC VELO = -18.5 CM/SEC AT 20.54 SEC DISP = -5.6 CM AT 22.32 SEC

INITIAL VELO = -0.38469 CM/SEC INITIAL DISP = -0.48617 CM
3653 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -1 | 3 | -11 | -27 | -13 | 24 | 49 | 53 | 79 | 158 | 191 | 133 | 109 | 98 | 82 | 26 | -53 | -73 | -14 | 29 |
| 29 | -35 | -89 | -78 | -40 | -43 | -117 | -171 | -120 | -10 | 53 | -7 | -24 | 31 | 96 | 118 | 53 | -6 | -16 | 0 |
| 6 | 8 | 5 | 32 | 108 | 181 | 177 | 78 | 5 | 26 | 50 | -18 | -183 | -169 | -100 | -104 | -168 | -170 | -141 | -93 |
| -48 | -37 | -53 | -101 | -78 | 54 | 131 | 77 | 1 | 28 | 101 | 121 | 57 | 11 | -3 | -22 | -35 | -18 | 39 | 92 |
| 123 | 89 | 45 | 35 | 22 | -36 | -145 | -209 | -152 | -59 | -65 | -109 | -95 | 7 | 46 | 20 | -20 | -50 | -61 | -61 |
| 12 | 87 | 61 | 42 | 52 | 88 | 86 | 30 | -18 | -30 | -35 | -39 | -11 | 76 | 112 | 76 | 41 | 31 | 34 | -14 |
| -62 | -100 | -97 | -82 | -106 | -165 | -153 | -90 | -43 | -44 | -58 | -50 | 0 | 56 | 107 | 138 | 150 | 163 | 170 | 158 |
| 124 | 62 | 24 | 55 | 73 | 11 | -65 | -100 | -65 | -34 | -24 | -14 | -3 | 10 | 32 | 57 | 76 | 55 | -3 | -48 |
| -68 | -82 | -96 | -92 | -49 | -6 | 8 | -8 | -22 | -29 | -13 | 9 | 14 | -7 | -18 | 10 | 55 | 75 | 74 | 74 |
| 69 | 43 | 20 | 43 | 77 | 65 | 3 | -35 | 3 | 50 | 16 | -24 | -47 | -35 | 2 | 7 | -21 | -45 | -67 | -83 |
| -86 | -47 | -7 | -45 | -115 | -97 | -26 | -11 | -51 | -68 | -18 | 53 | 105 | 136 | 159 | 165 | 116 | 70 | 101 | 135 |
| 73 | 8 | -17 | -6 | -15 | -46 | -75 | -98 | -109 | -121 | -106 | -25 | 88 | 100 | 68 | 81 | 146 | 145 | 52 | -70 |
| -147 | -116 | -16 | 4 | -29 | 6 | 82 | 126 | 105 | 74 | 50 | 61 | 127 | 145 | 79 | 14 | -22 | -13 | -16 | -59 |
| -116 | -139 | -123 | -114 | -123 | -131 | -133 | -123 | -114 | -102 | -59 | 21 | 93 | 118 | 84 | 19 | -1 | -12 | -54 | -81 |
| -60 | 4 | 31 | 9 | 3 | 23 | 40 | 59 | 77 | 86 | 57 | 8 | -14 | -24 | -39 | -60 | -79 | -100 | -117 | -97 |
| -6 | 50 | 6 | -23 | 31 | 76 | 73 | 18 | -19 | -14 | 8 | 16 | 19 | 27 | 41 | 45 | 31 | 11 | 6 | 2 |
| -14 | -27 | -13 | 35 | 73 | 94 | 104 | 93 | 67 | 40 | 12 | -15 | -42 | -67 | -77 | -75 | -106 | -117 | -82 | -80 |
| -89 | -85 | -54 | -19 | -22 | -72 | -108 | -122 | -120 | -53 | 38 | 85 | 96 | 102 | 92 | 78 | 83 | 121 | 108 | 43 |
| 15 | 31 | 66 | 31 | -42 | -88 | -108 | -142 | -166 | -114 | -85 | -153 | -201 | -153 | -55 | 7 | 32 | 73 | 121 | 136 |
| 153 | 188 | 195 | 141 | 90 | 47 | 50 | 89 | 118 | 137 | 147 | 131 | 84 | 39 | -6 | -57 | -122 | -185 | -204 | -143 |
| -103 | -113 | -111 | -86 | -71 | -103 | -146 | -163 | -124 | -70 | -33 | -21 | -15 | 5 | 56 | 111 | 112 | 87 | 66 | 27 |
| -15 | -53 | -63 | -46 | -53 | -87 | -119 | -150 | -176 | -204 | -231 | -259 | -285 | -301 | -260 | -188 | -134 | -124 | -144 | -146 |
| -122 | -88 | -59 | -25 | 17 | 74 | 129 | 185 | 241 | 288 | 286 | 269 | 300 | 311 | 283 | 265 | 278 | 298 | 283 | 245 |
| 219 | 181 | 100 | 8 | -80 | -155 | -197 | -234 | -262 | -226 | -143 | -123 | -131 | -80 | -3 | 59 | 90 | 104 | 138 | 195 |
| 225 | 181 | 127 | 87 | 68 | 42 | -23 | -97 | -137 | -106 | -69 | -105 | -196 | -257 | -277 | -264 | -191 | -106 | -79 | -98 |
| -125 | -130 | -102 | -100 | -133 | -153 | -106 | 38 | 153 | 201 | 224 | 238 | 243 | 252 | 258 | 267 | 273 | 277 | 263 | 240 |
| 225 | 238 | 273 | 304 | 329 | 328 | 321 | 315 | 310 | 303 | 294 | 276 | 258 | 238 | 209 | 170 | 128 | 54 | -60 | -132 |
| -120 | -109 | -162 | -252 | -333 | -418 | -497 | -533 | -481 | -426 | -373 | -319 | -240 | -120 | -9 | 52 | 79 | 113 | 134 | 107 |
| 49 | 32 | 51 | 50 | -2 | -60 | -117 | -181 | -266 | -350 | -379 | -311 | -245 | -214 | -240 | -267 | -289 | -257 | -144 | -32 |
| 79 | 190 | 302 | 411 | 493 | 451 | 355 | 333 | 374 | 415 | 453 | 493 | 526 | 476 | 298 | 121 | -47 | -165 | -236 | -309 |
| -384 | -457 | -513 | -449 | -282 | -155 | -95 | -57 | -11 | 31 | 76 | 109 | 85 | 20 | -37 | -95 | -104 | -24 | 10 | -108 |
| -266 | -409 | -560 | -702 | -780 | -636 | -408 | -206 | 6 | 210 | 379 | 435 | 502 | 675 | 827 | 764 | 540 | 379 | 295 | 222 |
| 97 | -58 | -170 | -216 | -199 | -230 | -316 | -360 | -403 | -358 | -368 | -425 | -480 | -534 | -575 | -525 | -386 | -256 | -124 | -9 |
| 6 | -66 | 408 | 57 | 242 | 408 | 583 | 737 | 776 | 662 | 560 | 501 | 552 | 609 | 579 | 483 | 400 | 311 | 227 | 139 |
| 55 | -34 | -118 | -188 | -159 | -63 | 22 | 101 | 97 | -19 | -132 | -245 | -355 | -469 | -578 | -651 | -611 | -538 | -485 | -489 |
| -531 | -550 | -501 | -392 | -295 | -191 | -70 | 86 | 240 | 395 | 549 | 703 | 845 | 925 | 965 | 972 | 906 | 786 | 591 | 411 |
| 283 | 195 | 98 | 5 | -92 | -186 | -282 | -375 | -439 | -437 | -426 | -417 | -406 | -370 | -311 | -263 | -294 | -380 | -433 | -354 |
| -202 | -93 | -90 | -171 | -189 | -115 | -12 | 79 | 175 | 268 | 363 | 457 | 551 | 646 | 739 | 803 | 757 | 659 | 539 | 370 |
| 205 | 39 | -113 | -210 | -279 | -357 | -431 | -507 | -580 | -632 | -664 | -698 | -732 | -764 | -773 | -735 | -672 | -491 | -255 | -51 |
| 67 | 125 | 198 | 250 | 280 | 304 | 333 | 359 | 376 | 365 | 354 | 393 | 473 | 547 | 601 | 595 | 575 | 557 | 513 | 435 |
| 358 | 279 | 190 | 93 | -1 | -91 | -146 | -175 | -208 | -257 | -335 | -414 | -490 | -542 | -562 | -584 | -601 | -580 | -505 | -432 |
| -353 | -243 | -108 | 23 | 145 | 245 | 344 | 473 | 656 | 793 | 821 | 838 | 858 | 849 | 791 | 731 | 635 | 424 | 180 | -32 |
| -252 | -465 | -641 | -729 | -782 | -763 | -724 | -691 | -671 | -688 | -718 | -742 | -749 | -723 | -675 | -568 | -450 | -334 | -218 | -119 |
| -107 | -150 | -178 | -190 | -153 | -89 | 19 | 135 | 248 | 362 | 474 | 560 | 599 | 637 | 653 | 615 | 575 | 593 | 647 | 678 |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| 647 | 580 | 474 | 325 | 185 | 41 | -94 | -202 | -284 | -372 | -455 | -521 | -553 | -565 | -515 | -472 | -508 | -569 | -620 | -654 |
| -577 | -434 | -270 | -83 | 96 | 279 | 459 | 626 | 715 | 754 | 751 | 688 | 635 | 605 | 640 | 679 | 674 | 618 | 550 | 441 |
| 325 | 236 | 195 | 144 | 37 | -88 | -183 | -230 | -270 | -315 | -376 | -494 | -635 | -769 | -898 | -983 | -1044 | -1108 | -1133 | -1075 |
| -975 | -821 | -667 | -581 | -523 | -401 | -237 | -78 | 106 | 332 | 566 | 793 | 972 | 1047 | 1079 | 1038 | 974 | 898 | 814 | 732 |
| 650 | 568 | 487 | 410 | 345 | 278 | 199 | 85 | -39 | -161 | -274 | -342 | -397 | -526 | -685 | -819 | -847 | -787 | -725 | -651 |
| -582 | -492 | -339 | -158 | -8 | 82 | 148 | 223 | 294 | 367 | 440 | 512 | 578 | 627 | 657 | 612 | 518 | 392 | 250 | 113 |
| -26 | -155 | -240 | -269 | -249 | -233 | -281 | -345 | -375 | -378 | -385 | -411 | -665 | -518 | -571 | -614 | -642 | -666 | -664 | -606 |
| -565 | -578 | -582 | -523 | -447 | -372 | -250 | -55 | 137 | 330 | 521 | 692 | 737 | 696 | 687 | 758 | 886 | 999 | 1098 | 1084 |
| 994 | 912 | 784 | 637 | 491 | 347 | 200 | 56 | -69 | -74 | -14 | -34 | -165 | -295 | -351 | -286 | -219 | -156 | -92 | -16 |
| 98 | 203 | 200 | 109 | 16 | -72 | -161 | -229 | -258 | -218 | -156 | -66 | 29 | 123 | 215 | 269 | 244 | 202 | 107 | -32 |
| -146 | -205 | -241 | -284 | -324 | -366 | -407 | -449 | -515 | -628 | -731 | -773 | -797 | -786 | -746 | -624 | -450 | -291 | -146 | -53 |
| 32 | 119 | 205 | 262 | 216 | 134 | 113 | 118 | 176 | 284 | 387 | 513 | 667 | 786 | 839 | 875 | 846 | 793 | 742 | 675 |
| 602 | 532 | 472 | 440 | 415 | 386 | 359 | 330 | 274 | 162 | 45 | -71 | -185 | -302 | -414 | -476 | -428 | -361 | -301 | -240 |
| -179 | -119 | -70 | -40 | -8 | 23 | 47 | 24 | -28 | -58 | -69 | -80 | -91 | -87 | -68 | -57 | -88 | -145 | -195 | -247 |
| -298 | -343 | -347 | -319 | -296 | -281 | -288 | -300 | -311 | -322 | -335 | -364 | -409 | -448 | -458 | -434 | -435 | -458 | -471 | -431 |
| -354 | -284 | -209 | -120 | -24 | 70 | 165 | 253 | 311 | 351 | 399 | 476 | 611 | 700 | 728 | 797 | 927 | 1051 | 1120 | 1072 |
| 977 | 803 | 622 | 511 | 444 | 368 | 296 | 232 | 208 | 196 | 175 | 113 | 5 | -98 | -180 | -249 | -315 | -336 | -292 | -251 |
| -217 | -232 | -296 | -354 | -400 | -416 | -425 | -437 | -446 | -445 | -395 | -326 | -262 | -196 | -134 | -84 | -38 | 8 | 55 | 98 |
| 89 | -11 | -107 | -152 | -121 | -111 | -162 | -238 | -302 | -356 | -399 | -443 | -452 | -425 | -398 | -363 | -306 | -246 | -188 | -135 |
| -127 | -168 | -206 | -244 | -263 | -241 | -210 | -181 | -150 | -113 | -73 | -34 | 3 | 19 | 20 | 23 | 26 | 36 | 81 | 149 |
| 211 | 275 | 337 | 393 | 430 | 466 | 500 | 523 | 528 | 535 | 541 | 536 | 467 | 365 | 272 | 177 | 105 | 78 | 58 | 36 |
| 14 | -8 | -30 | -51 | -74 | -95 | -118 | -139 | -152 | -135 | -108 | -83 | -64 | -99 | -201 | -292 | -315 | -240 | -169 | -99 |
| -44 | -13 | 13 | 42 | 68 | 86 | 91 | 99 | 105 | 112 | 118 | 125 | 131 | 123 | 62 | -23 | -100 | -167 | -161 | -118 |
| -85 | -52 | -45 | -67 | -89 | -109 | -119 | -59 | 65 | 171 | 211 | 163 | 120 | 77 | 37 | -4 | -43 | -77 | -63 | -9 |
| 34 | 31 | -17 | -56 | -68 | -50 | -36 | -20 | -5 | 10 | 29 | 80 | 175 | 264 | 322 | 296 | 249 | 228 | 238 | 250 |
| 260 | 270 | 281 | 286 | 252 | 173 | 99 | 23 | -52 | -127 | -202 | -276 | -322 | -314 | -299 | -288 | -295 | -348 | -378 | -347 |
| -318 | -289 | -261 | -232 | -192 | -118 | -46 | -63 | -140 | -137 | -49 | 25 | 29 | -26 | -46 | -1 | 55 | 44 | -4 | -45 |
| -89 | -131 | -159 | -91 | -50 | 155 | 189 | 191 | 204 | 208 | 173 | 75 | -18 | -113 | -204 | -264 | -250 | -225 | -204 | -183 |
| -161 | -140 | -118 | -97 | -76 | -53 | -8 | 91 | 202 | 308 | 402 | 448 | 478 | 513 | 546 | 584 | 638 | 704 | 725 | 678 |
| 626 | 538 | 371 | 200 | 81 | 26 | -30 | -86 | -135 | -124 | -54 | 8 | 28 | -33 | -97 | -158 | -197 | -195 | -190 | -186 |
| -177 | -151 | -122 | -93 | -65 | -52 | -127 | -254 | -370 | -485 | -542 | -493 | -432 | -265 | -281 | -179 | -93 | -6 | 79 | 167 |
| 250 | 301 | 248 | 162 | 87 | 8 | -69 | -147 | -225 | -302 | -380 | -449 | -450 | -363 | -281 | -198 | -118 | -52 | -26 | -10 |
| 13 | 66 | 148 | 200 | 221 | 253 | 313 | 380 | 408 | 362 | 307 | 257 | 211 | 199 | 213 | 222 | 221 | 195 | 168 | 140 |
| 114 | 87 | 60 | 35 | 19 | 12 | 3 | -6 | -15 | -22 | -22 | -21 | -20 | -18 | -17 | -12 | -5 | 2 | 22 | 74 |
| 125 | 120 | 79 | 50 | 52 | 90 | 122 | 144 | 97 | 15 | -58 | -133 | -200 | -219 | -187 | -163 | -156 | -185 | -213 | -241 |
| -269 | -297 | -324 | -353 | -380 | -393 | -369 | -336 | -300 | -246 | -185 | -126 | -66 | -8 | 39 | 63 | 85 | 99 | 79 | 45 |
| 15 | -17 | -47 | -61 | -33 | 2 | 35 | 64 | 82 | 98 | 115 | 119 | 92 | 57 | 26 | -8 | -39 | -42 | 12 | 57 |
| 59 | 60 | 90 | 120 | 151 | 179 | 180 | 113 | 38 | -4 | -9 | 38 | 87 | 109 | 110 | 114 | 118 | 123 | 139 | 167 |
| 192 | 200 | 178 | 158 | 137 | 117 | 91 | 31 | -62 | -131 | -161 | -173 | -157 | -134 | -113 | -88 | -52 | -21 | -34 | -66 |
| -91 | -95 | -49 | 6 | 56 | 97 | 109 | 111 | 102 | 85 | 71 | 54 | 27 | -16 | -52 | -52 | -31 | -28 | -64 | -117 |
| -165 | -215 | -257 | -263 | -230 | -202 | -172 | -148 | -149 | -172 | -191 | -207 | -198 | -178 | -160 | -148 | -160 | -185 | -206 | -218 |
| -208 | -195 | -182 | -170 | -156 | -120 | -48 | 22 | 93 | 160 | 195 | 178 | 163 | 155 | 170 | 188 | 192 | 166 | 139 | 124 |
| 143 | 167 | 163 | 121 | 82 | 41 | 4 | -6 | 36 | 77 | 116 | 146 | 173 | 199 | 211 | 177 | 129 | 85 | 34 | -21 |
| -77 | -132 | -174 | -171 | -151 | -137 | -125 | -119 | -113 | -107 | -96 | -72 | -42 | -13 | 16 | 177 | 66 | 71 | 73 | 76 |
| 79 | 82 | 84 | 76 | 46 | 16 | -11 | -19 | -14 | -12 | -8 | -5 | -2 | 2 | 8 | 19 | 31 | 43 | 55 | 67 |
| 75 | 65 | 44 | 27 | 9 | -9 | -27 | -35 | -16 | 11 | 38 | 73 | 110 | 147 | 184 | 218 | 225 | 203 | 184 | 164 |
| 145 | 126 | 112 | 100 | 87 | 75 | 81 | 121 | 158 | 181 | 188 | 195 | 187 | 171 | 157 | 143 | 128 | 114 | 100 | 86 |
| -71 | 57 | 43 | 27 | 4 | -28 | -59 | -90 | -122 | -153 | -184 | -215 | -246 | -277 | -303 | -320 | -334 | -334 | -305 | -273 |
| -241 | -210 | -179 | -158 | -151 | -145 | -136 | -96 | -10 | 63 | 91 | 71 | 26 | -32 | -83 | -111 | -108 | -100 | -63 | -16 |
| 39 | 103 | 137 | 132 | 129 | 125 | 119 | 109 | 101 | 91 | 84 | 90 | 142 | 207 | 269 | 330 | 367 | 347 | 314 | 285 |
| 254 | 223 | 191 | 159 | 128 | 102 | 83 | 65 | 46 | 28 | 30 | 72 | 117 | 132 | 106 | 80 | 42 | -21 | -85 | -149 |
| -209 | -249 | -274 | -293 | -281 | -262 | -260 | -288 | -321 | -353 | -385 | -417 | -448 | -453 | -401 | -337 | -261 | -175 | -100 | -81 |
| -126 | -165 | -206 | -245 | -280 | -278 | -259 | -248 | -254 | -269 | -271 | -252 | -230 | -206 | -160 | -97 | -35 | 27 | 88 | 151 |
| 212 | 262 | 249 | 202 | 165 | 125 | 90 | 74 | 106 | 148 | 188 | 227 | 266 | 293 | 256 | 296 | 302 | 333 | 394 | 451 |
| 491 | 502 | 502 | 475 | 446 | 417 | 389 | 360 | 335 | 321 | 316 | 308 | 299 | 276 | 244 | 212 | 181 | 150 | 119 | 87 |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 56 | 15 | -48 | -118 | -186 | -255 | -322 | -374 | -390 | -397 | -408 | -412 | -404 | -392 | -393 | -407 | -421 | -434 | -448 | -461 |
| -456 | -411 | -339 | -244 | -150 | -60 | 1 | 29 | 60 | 88 | 89 | 45 | 3 | -34 | -37 | -10 | 14 | 37 | 57 | 68 |
| 63 | 24 | -20 | -63 | -104 | -135 | -131 | -117 | -105 | -87 | -55 | -26 | -26 | -44 | -55 | -43 | 21 | 86 | 150 | 214 |
| 279 | 342 | 396 | 430 | 465 | 499 | 535 | 569 | 592 | 571 | 531 | 496 | 460 | 425 | 389 | 353 | 317 | 282 | 245 | 194 |
| 111 | 24 | -60 | -145 | -231 | -312 | -371 | -399 | -438 | -489 | -537 | -544 | -522 | -519 | -565 | -631 | -662 | -665 | -613 | -527 |
| -449 | -368 | -289 | -212 | -161 | -141 | -117 | -74 | -21 | 29 | 80 | 124 | 128 | 104 | 86 | 65 | 48 | 38 | 35 | 29 |
| 24 | 18 | 13 | 8 | -1 | -25 | -55 | -84 | -112 | -141 | -169 | -193 | -202 | -198 | -181 | -162 | -143 | -116 | -63 | -4 |
| 54 | 111 | 157 | 186 | 214 | 244 | 287 | 347 | 408 | 468 | 528 | 588 | 648 | 707 | 740 | 722 | 693 | 631 | 541 | 455 |
| 368 | 282 | 195 | 113 | 58 | 27 | -9 | -52 | -111 | -169 | -228 | -286 | -344 | -400 | -445 | -476 | -503 | -491 | -448 | -410 |
| -367 | -312 | -252 | -195 | -148 | -119 | -89 | -59 | -29 | 0 | 28 | 56 | 83 | 111 | 139 | 163 | 163 | 135 | 108 | 80 |
| 40 | -9 | -56 | -104 | -150 | -184 | -201 | -216 | -221 | -206 | -191 | -176 | -163 | -168 | -193 | -218 | -243 | -264 | -263 | -237 |
| -208 | -160 | -103 | -48 | 9 | 64 | 108 | 119 | 117 | 119 | 122 | 142 | 176 | 226 | 307 | 378 | 403 | 397 | 371 | 339 |
| 309 | 273 | 213 | 138 | 68 | -4 | -63 | -88 | -98 | -114 | -127 | -138 | -132 | -120 | -112 | -115 | -131 | -145 | -159 | -165 |
| -142 | -109 | -78 | -46 | -13 | 21 | 55 | 89 | 116 | 111 | 87 | 69 | 52 | 56 | 74 | 91 | 108 | 119 | 112 | 96 |
| 82 | 68 | 54 | 39 | 18 | -19 | -59 | -98 | -135 | -159 | -171 | -185 | -197 | -203 | -192 | -177 | -162 | -146 | -123 | -100 |
| -77 | -53 | -30 | -7 | 16 | 39 | 63 | 86 | 105 | 117 | 127 | 138 | 146 | 143 | 131 | 120 | 110 | 99 | 89 | 78 |
| 68 | 60 | 58 | 56 | 54 | 52 | 50 | 48 | 46 | 44 | 42 | 41 | 39 | 38 | 46 | 62 | 76 | 92 | 106 | 112 |
| 100 | 83 | 67 | 52 | 36 | 20 | 8 | 13 | 28 | 41 | 55 | 68 | 72 | 57 | 40 | 23 | 7 | -10 | -26 | -43 |
| -58 | -66 | -66 | -68 | -74 | -89 | -104 | -119 | -134 | -147 | -147 | -139 | -134 | -128 | -122 | -114 | -103 | -92 | -81 | -71 |
| -59 | -47 | -34 | -22 | -16 | -19 | -22 | -26 | -29 | -26 | -12 | 3 | 18 | 33 | 49 | 63 | 72 | 66 | 59 | 53 |
| 47 | 40 | 34 | 28 | 24 | 23 | 21 | 19 | 17 | 15 | 14 | 12 | 10 | 8 | 7 | 11 | 27 | 46 | 64 | 82 |
| 100 | 118 | 136 | 153 | 163 | 171 | 178 | 172 | 153 | 135 | 117 | 100 | 84 | 74 | 67 | 59 | 52 | 44 | 35 | 16 |
| -12 | -38 | -64 | -88 | -113 | -136 | -147 | -145 | -144 | -142 | -141 | -140 | -139 | -137 | -133 | -113 | -82 | -52 | -20 | 14 |
| 47 | 74 | 82 | 86 | 89 | 85 | 81 | 77 | 73 | 67 | 47 | 20 | -5 | -31 | -55 | -79 | -100 | -113 | -107 | -98 |
| -90 | -83 | -76 | -71 | -65 | -59 | -54 | -48 | -40 | -19 | 12 | 40 | 69 | 96 | 114 | 127 | 141 | 154 | 168 | 183 |
| 199 | 214 | 230 | 244 | 248 | 241 | 235 | 229 | 215 | 186 | 154 | 123 | 92 | 61 | 29 | -2 | -32 | -60 | -88 | -113 |
| -126 | -127 | -130 | -133 | -135 | -139 | -150 | -174 | -196 | -208 | -210 | -212 | -214 | -212 | -201 | -188 | -170 | -153 | -143 | -133 |
| -116 | -97 | -82 | -75 | -67 | -59 | -48 | -34 | -19 | -5 | 9 | 12 | 6 | 1 | -3 | -8 | -13 | -17 | -24 | -38 |
| -56 | -72 | -89 | -106 | -121 | -126 | -119 | -113 | -106 | -98 | -82 | -63 | -45 | -27 | -8 | 11 | 35 | 65 | 95 | 122 |
| 140 | 152 | 165 | 177 | 185 | 181 | 173 | 167 | 160 | 155 | 153 | 150 | 148 | 145 | 142 | 137 | 117 | 92 | 68 | 43 |
| 20 | -1 | -17 | -32 | -48 | -64 | -79 | -94 | -103 | -106 | -109 | -112 | -115 | -118 | -121 | -122 | -116 | -106 | -97 | -87 |
| -70 | -46 | -23 | -1 | 12 | 18 | 25 | 28 | 24 | 18 | 13 | 8 | 3 | -2 | -7 | -13 | -19 | -24 | -30 | -36 |
| -45 | -55 | -64 | -74 | -80 | -77 | -72 | -68 | -63 | -59 | -53 | -37 | -8 | 18 | 39 | 55 | 72 | 88 | 106 | 122 |
| 137 | 150 | 162 | 175 | 168 | 200 | 207 | 198 | 185 | 173 | 161 | 149 | 137 | 125 | 112 | 100 | 88 | 74 | 54 | 34 |
| 14 | -7 | -27 | -47 | -64 | -72 | -78 | -85 | -92 | -98 | -105 | -112 | -117 | -114 | -104 | -95 | -86 | -77 | -68 | -59 |
| -50 | -42 | -34 | -28 | -23 | -23 | -33 | -45 | -56 | -67 | -79 | -90 | -101 | -112 | -123 | -134 | -146 | -154 | -157 | -158 |
| -156 | -145 | -131 | -118 | -104 | -91 | -78 | -65 | -51 | -40 | -31 | -23 | -15 | -7 | 2 | 10 | 21 | 37 | 54 | 70 |
| 84 | 91 | 90 | 91 | 91 | 91 | 91 | 91 | 91 | 90 | 84 | 77 | 69 | 62 | 55 | 48 | 40 | 33 | 26 | 18 |
| 11 | 4 | -4 | -11 | -16 | -13 | -7 | -1 | 5 | 9 | 8 | 2 | -2 | -7 | -13 | -18 | -24 | -29 | -35 | -39 |
| -34 | -22 | -12 | -1 | 6 | 3 | -4 | -9 | -15 | -20 | -25 | -26 | -17 | -9 | -1 | 6 | 7 | 6 | 6 | 5 |
| 5 | 3 | -1 | -7 | -12 | -18 | -22 | -21 | -11 | 0 | 10 | 19 | 27 | 33 | 39 | 45 | 51 | 56 | 62 | 68 |
| 74 | 82 | 92 | 101 | 110 | 119 | 123 | 115 | 108 | 100 | 92 | 86 | 87 | 92 | 96 | 100 | 96 | 78 | 62 | 45 |
| 28 | 11 | -5 | -16 | -24 | -33 | -41 | -49 | -57 | -66 | -74 | -83 | -91 | -99 | -101 | -96 | -92 | -87 | -83 | -74 |
| -52 | -24 | -9 | 0 | 10 | 18 | 14 | -1 | -14 | -28 | -41 | -55 | -68 | -77 | -81 | -85 | -90 | -94 | -98 | -100 |
| -95 | -90 | -85 | -80 | -75 | -70 | -64 | -59 | -54 | -49 | -42 | -34 | -27 | -20 | -13 | -6 | 2 | 9 | 16 | 23 |
| 31 | 40 | 49 | 58 | 67 | 76 | 84 | 91 | 94 | 95 | 97 | 99 | 101 | 103 | 102 | 97 | 93 | 89 | 84 | 80 |
| 75 | 71 | 67 | 62 | 57 | 49 | 39 | 29 | 19 | 9 | -1 | -11 | -21 | -31 | -41 | -46 | -45 | -44 | -43 | -42 |
| -40 | -37 | -32 | -28 | -24 | -20 | -15 | -11 | -7 | -2 | 2 | 6 | 10 | 15 | 20 | 27 | 36 | 44 | 53 | 61 |
| 69 | 69 | 58 | 48 | 38 | 28 | 18 | 9 | 3 | -3 | -9 | -15 | -21 | -28 | -34 | -40 | -46 | -48 | -47 | -46 |
| -46 | -45 | -41 | -30 | -20 | -9 | 1 | 12 | 22 | 32 | 38 | 32 | 24 | 16 | 11 | 7 | 3 | -1 | -4 | 1 |
| 18 | 36 | 51 | 57 | 59 | 63 | 66 | 64 | 54 | 44 | 34 | 24 | 14 | 4 | -6 | -17 | -27 | -37 | -47 | -56 |
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| -11 | 0 | 12 | 23 | 35 | 45 | 52 | 56 | 60 | 58 | 53 | 49 | 44 | 40 | 35 | 31 | 26 | 22 | 17 | 13 |
| 8 | 4 | -1 | -5 | -10 | -15 | -19 | -20 | -12 | 1 | 11 | 19 | 21 | 23 | 25 | 26 | 25 | 19 | 14 | 9 |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 4 | -2 | -7 | -12 | -17 | -18 | -19 | -18 | -17 | -17 | -17 | -17 | -16 | -16 | -15 | -15 | -15 | -14 | -14 | -14 |
| -16 | -21 | -27 | -32 | -38 | -43 | -43 | -49 | -55 | -60 | -66 | -68 | -71 | -71 | -75 | -75 | -75 | -75 | -75 | -75 |
| -21 | -21 | -21 | -20 | -13 | -4 | -4 | 5 | 14 | 22 | 31 | 40 | 48 | 53 | 56 | 59 | 62 | 65 | 69 | 72 |
| 61 | 52 | 43 | 35 | 26 | 17 | 8 | 0 | 0 | -8 | -9 | -9 | 1 | 10 | 19 | 28 | 37 | 45 | 54 | 62 |
| 70 | 71 | 61 | 51 | 40 | 30 | 20 | 10 | 10 | -1 | -11 | -22 | -33 | -43 | -49 | -49 | -49 | -50 | -53 | -57 |
| -61 | -65 | -69 | -74 | -78 | -82 | -86 | -90 | -90 | -94 | -98 | -99 | -93 | -84 | -76 | -69 | -61 | -53 | -43 | -28 |
| 7 | 24 | 41 | 56 | 69 | 81 | 88 | 80 | 80 | 69 | 59 | 49 | 39 | 28 | 18 | 8 | -1 | -5 | -8 | -12 |
| -19 | -22 | -26 | -29 | -33 | -36 | -39 | -39 | -39 | -35 | -32 | -29 | -25 | -22 | -19 | -15 | -12 | -9 | -6 | -2 |
| 6 | 15 | 23 | 31 | 40 | 48 | 56 | 64 | 71 | 70 | 70 | 65 | 60 | 55 | 51 | 46 | 42 | 37 | 32 | 27 |
| 19 | 14 | 10 | 5 | 1 | -4 | -8 | -13 | -13 | -15 | -12 | -7 | -3 | 2 | 8 | 15 | 22 | 29 | 36 | 43 |
| 57 | 64 | 71 | 78 | 84 | 89 | 91 | 93 | 95 | 95 | 98 | 100 | 102 | 105 | 107 | 109 | 112 | 114 | 111 | 99 |
| 74 | 61 | 49 | 36 | 24 | 11 | -2 | -14 | -27 | -27 | -40 | -53 | -66 | -80 | -93 | -106 | -119 | -133 | -144 | -148 |
| -145 | -144 | -143 | -141 | -134 | -123 | -113 | -102 | -93 | -88 | -88 | -86 | -84 | -81 | -79 | -76 | -74 | -71 | -69 | -67 |
| -62 | -59 | -57 | -54 | -52 | -49 | -47 | -45 | -42 | -40 | -40 | -37 | -35 | -32 | -30 | -27 | -25 | -23 | -20 | -18 |
| -12 | -4 | 5 | 14 | 22 | 31 | 40 | 49 | 56 | 60 | 60 | 65 | 70 | 75 | 80 | 85 | 87 | 83 | 79 | 75 |
| 86 | 97 | 107 | 115 | 117 | 120 | 122 | 117 | 104 | 90 | 90 | 77 | 64 | 51 | 38 | 25 | 12 | -2 | -15 | -28 |
| -46 | -51 | -56 | -61 | -66 | -72 | -77 | -79 | -76 | -72 | -72 | -69 | -65 | -61 | -57 | -51 | -43 | -34 | -26 | -18 |
| -1 | 3 | 0 | -4 | -8 | -12 | -16 | -20 | -24 | -24 | -27 | -31 | -34 | -33 | -30 | -27 | -24 | -20 | -17 | -14 |
| -8 | -4 | -1 | 2 | 5 | 12 | 27 | 43 | 58 | 58 | 73 | 89 | 102 | 111 | 116 | 122 | 128 | 134 | 136 | 133 |
| 125 | 121 | 118 | 114 | 110 | 106 | 103 | 99 | 93 | 93 | 80 | 65 | 50 | 35 | 21 | 6 | -9 | -21 | -29 | -35 |
| -48 | -55 | -62 | -68 | -75 | -81 | -88 | -95 | -101 | -101 | -102 | -95 | -87 | -80 | -73 | -66 | -64 | -70 | -76 | -81 |
| -93 | -98 | -100 | -101 | -103 | -104 | -105 | -106 | -107 | -107 | -108 | -109 | -110 | -112 | -113 | -114 | -115 | -112 | -102 | -90 |
| -68 | -57 | -46 | -35 | -23 | -12 | -1 | 10 | 21 | 21 | 33 | 44 | 54 | 62 | 70 | 77 | 85 | 92 | 100 | 108 |
| 112 | 100 | 89 | 77 | 66 | 55 | 43 | 32 | 21 | 21 | 10 | 1 | -6 | -13 | -20 | -27 | -34 | -41 | -43 | -39 |
| -30 | -26 | -22 | -18 | -14 | -10 | -6 | -2 | 2 | 2 | 6 | 11 | 15 | 19 | 23 | 27 | 32 | 39 | 46 | 53 |
| 66 | 72 | 69 | 54 | 41 | 27 | 14 | 1 | 1 | -13 | -24 | -28 | -29 | -31 | -33 | -35 | -37 | -38 | -31 | -20 |
| 0 | 9 | 20 | 30 | 42 | 56 | 70 | 83 | 97 | 97 | 109 | 113 | 108 | 104 | 100 | 97 | 93 | 89 | 85 | 82 |
| 74 | 70 | 66 | 63 | 58 | 50 | 41 | 32 | 24 | 24 | 15 | 6 | -2 | -11 | -19 | -28 | -36 | -45 | -53 | -62 |
| -79 | -88 | -91 | -85 | -77 | -70 | -63 | -56 | -49 | -49 | -42 | -35 | -27 | -20 | -13 | -6 | 1 | 8 | 15 | 22 |
| 21 | 16 | 12 | 8 | 3 | -1 | -6 | -10 | -14 | -14 | -19 | -23 | -27 | -30 | | | | | | |

IIV318 52.004.0 KERN COUNTY EARTHQUAKE JUL 21, 1952 - 0453 PDT
STATION NO. 134 HOLLYWOOD STORAGE CO., PENTHOUSE, HOLLYWOOD, CAL.
INSTR PERIOD = 0.044 SEC DAMPING = 0.728 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

EPICENTER - 35 00 00N, 119 02 00W
COMP WEST 34 05 00N, 118 20 00W
DISP = 10.4 CM AT 12.20 SEC

PEAK VALS ACCLN = -145.6 CM/SEC/SEC AT 12.74 SEC VELO = -21.7 CM/SEC AT 12.92 SEC DISP = 10.4 CM AT 12.20 SEC

| 3655 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC. | | | | | | | | | | | | | | | | | | | |
|--|-------|-------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-------|
| INITIAL VELO = 0.01832 CM/SEC | | | | | INITIAL DISP = 0.81293 CM | | | | | | | | | | | | | | |
| 69 | 48 | 31 | 15 | -1 | -17 | -33 | -47 | -53 | -54 | -57 | -60 | -62 | -62 | -56 | -47 | -39 | -28 | 5 | 60 |
| 106 | 123 | 118 | 119 | 118 | 119 | 116 | 92 | 20 | -53 | -107 | -111 | -99 | -94 | -88 | -82 | -76 | -70 | -63 | -47 |
| -17 | 12 | 40 | 69 | 97 | 110 | 79 | 34 | -4 | -23 | -3 | 15 | 32 | 49 | 66 | 82 | 81 | 29 | -37 | -94 |
| -129 | -110 | -87 | -66 | -47 | -26 | -6 | 7 | -19 | -64 | -84 | -69 | -8 | 97 | 113 | 81 | 65 | 36 | -30 | -104 |
| -101 | -65 | -40 | -19 | -39 | -86 | -120 | -105 | -30 | 28 | 43 | 33 | 34 | 33 | 46 | 61 | 72 | 54 | 17 | -16 |
| -49 | -75 | -67 | -41 | -22 | -7 | -20 | -65 | -72 | -72 | -34 | 18 | 62 | 83 | 53 | 22 | -6 | -35 | -59 | -58 |
| -41 | -28 | -15 | -17 | -49 | -87 | -120 | -139 | -115 | -79 | -49 | -17 | 13 | 33 | 35 | 39 | 44 | 54 | 74 | 94 |
| 114 | 133 | 153 | 169 | 149 | 83 | 21 | -39 | -77 | -81 | -86 | -93 | -99 | -100 | -88 | -74 | -60 | -47 | -33 | -15 |
| 15 | 49 | 81 | 114 | 148 | 189 | 232 | 266 | 240 | 167 | 114 | 86 | 67 | 42 | 12 | -47 | -111 | -169 | -204 | -228 |
| -254 | -257 | -164 | -30 | 73 | 104 | 68 | 51 | 65 | 132 | 168 | 141 | 99 | 77 | 82 | 100 | 108 | 86 | -8 | -102 |
| -171 | -173 | -154 | -151 | -156 | -168 | -174 | -153 | -38 | 106 | 224 | 285 | 307 | 315 | 238 | 162 | 141 | 128 | 110 | 84 |
| 42 | 1 | -48 | -119 | -195 | -268 | -333 | -372 | -345 | -239 | -113 | -46 | -6 | 45 | 82 | 102 | 119 | 139 | 157 | 176 |
| 186 | 176 | 163 | 151 | 140 | 128 | 110 | 81 | 53 | 21 | -28 | -85 | -134 | -164 | -141 | -78 | -22 | 34 | 75 | 89 |
| 51 | -25 | -81 | -81 | -43 | -18 | 11 | 27 | 24 | 18 | 15 | 10 | 7 | 4 | 13 | 36 | 57 | 74 | 69 | 48 |
| 32 | 19 | 31 | 63 | 90 | 106 | 71 | 15 | -28 | -41 | -8 | 19 | 41 | 30 | 0 | -26 | -50 | -48 | 5 | 54 |
| 79 | 45 | 1 | -39 | -76 | -112 | -128 | -143 | -157 | -130 | 1 | 96 | 99 | 116 | 111 | 75 | 40 | 9 | -4 | 21 |
| 44 | 49 | 23 | -2 | -22 | -17 | 10 | 30 | 28 | -16 | -54 | -70 | -46 | -22 | 6 | 42 | 70 | 50 | 0 | -42 |
| -81 | -97 | -103 | -113 | -122 | -132 | -139 | -105 | -5 | 56 | -28 | 28 | 18 | 29 | 90 | 154 | 201 | 216 | 225 | 238 |
| 248 | 221 | 120 | 17 | -82 | -179 | -235 | -204 | -164 | -131 | -96 | -64 | -54 | -70 | -85 | -98 | -112 | -124 | -119 | -87 |
| -58 | -29 | 1 | 34 | 73 | 112 | 151 | 189 | 220 | 211 | 171 | 139 | 105 | 72 | 39 | 6 | -27 | -67 | -133 | -210 |
| -284 | -357 | -358 | -289 | -137 | 26 | 27 | -14 | -38 | -38 | 21 | 119 | 218 | 268 | 191 | 80 | -14 | -113 | -194 | -183 |
| -92 | -77 | -102 | -117 | -111 | -44 | 40 | 110 | 139 | 116 | 101 | 85 | 70 | 54 | 38 | 23 | 12 | 26 | 55 | 81 |
| 105 | 103 | 48 | -8 | -62 | -115 | -148 | -118 | -70 | -44 | -38 | -32 | -24 | -16 | -16 | -61 | -149 | -228 | -289 | -244 |
| -131 | -43 | -10 | -86 | -151 | -203 | -172 | -87 | -37 | -92 | -202 | -288 | -364 | -338 | -263 | -205 | -151 | -104 | -38 | 98 |
| 264 | 399 | 464 | 494 | 529 | 543 | 560 | 531 | 408 | 279 | 176 | 76 | -22 | -121 | -203 | -248 | -289 | -332 | -366 | -337 |
| -245 | -184 | -165 | -144 | -123 | -98 | -32 | 130 | 282 | 351 | 363 | 382 | 422 | 500 | 564 | 522 | 413 | 339 | 259 | 183 |
| 115 | 68 | 12 | -71 | -167 | -257 | -350 | -441 | -532 | -584 | -520 | -421 | -354 | -287 | -220 | -122 | 22 | 154 | 263 | 320 |
| 320 | 331 | 366 | 457 | 549 | 566 | 490 | 424 | 359 | 302 | 265 | 226 | 111 | -77 | -242 | -325 | -281 | -191 | -115 | -55 |
| -37 | -28 | -13 | 24 | 126 | 217 | 250 | 290 | 356 | 432 | 451 | 432 | 422 | 411 | 400 | 388 | 351 | 256 | 33 | -298 |
| -606 | -918 | -1183 | -1284 | -1222 | -1103 | -934 | -771 | -573 | -318 | -61 | 190 | 445 | 692 | 858 | 874 | 808 | 640 | 484 | 329 |
| 186 | 92 | 34 | -36 | -112 | -272 | -510 | -739 | -966 | -1168 | -1188 | -1019 | -876 | -737 | -657 | -686 | -720 | -718 | -588 | -389 |
| -149 | 251 | 670 | 1068 | 1315 | 1307 | 1314 | 1293 | 1100 | 820 | 578 | 312 | -22 | -456 | -863 | -1169 | -1314 | -1456 | -1451 | -1273 |
| -1142 | -1048 | -996 | -959 | -808 | -453 | -87 | 265 | 608 | 843 | 948 | 1024 | 1077 | 1138 | 1155 | 1035 | 859 | 710 | 550 | 399 |
| 242 | 39 | -286 | -636 | -968 | -1239 | -1387 | -1425 | -1251 | -1028 | -813 | -601 | -385 | -153 | 91 | 270 | 359 | 455 | 553 | 654 |
| 770 | 898 | 1021 | 1112 | 1024 | 824 | 650 | 602 | 521 | 430 | 332 | 188 | 34 | -118 | -264 | -336 | -250 | -149 | -91 | -177 |
| -339 | -466 | -583 | -593 | -510 | -324 | -108 | 22 | 18 | -68 | -159 | -242 | -266 | -46 | 283 | 563 | 826 | 904 | 861 | 761 |
| 648 | 546 | 448 | 377 | 315 | 245 | 121 | -86 | -284 | -475 | -608 | -671 | -628 | -463 | -198 | 15 | 119 | 224 | 305 | 346 |
| 376 | 413 | 446 | 471 | 434 | 354 | 282 | 194 | 88 | 5 | -36 | -81 | -167 | -279 | -378 | -437 | -478 | -522 | -485 | -303 |
| -111 | 68 | 230 | 289 | 298 | 328 | 338 | 326 | 303 | 246 | 113 | -17 | -145 | -272 | -400 | -512 | -531 | -472 | -431 | -418 |
| -535 | -704 | -825 | -875 | -829 | -682 | -414 | -157 | 99 | 350 | 558 | 658 | 729 | 773 | 776 | 668 | 532 | 504 | 510 | 482 |
| 356 | 172 | 8 | -162 | -310 | -376 | -324 | -185 | 4 | 158 | 201 | 156 | 137 | 143 | 236 | 344 | 440 | 470 | 358 | 234 |
| 150 | 103 | 54 | -2 | -144 | -425 | -617 | -634 | -570 | -410 | -278 | -312 | -329 | -329 | -237 | -89 | 42 | 158 | 241 | 274 |
| 220 | 171 | 125 | 71 | -24 | -140 | -249 | -339 | -379 | -368 | -308 | -172 | -3 | 152 | 303 | 395 | 375 | 297 | 235 | 171 |
| 150 | 182 | 213 | 235 | 182 | -21 | -230 | -419 | -543 | -605 | -652 | -672 | -689 | -654 | -575 | -428 | -256 | -95 | 69 | 210 |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 279 | 320 | 374 | 424 | 476 | 527 | 596 | 749 | 907 | 950 | 933 | 835 | 628 | 388 | 196 | 144 | 179 | 175 | 124 | -5 |
| -118 | -229 | -319 | -401 | -422 | -392 | -369 | -347 | -324 | -289 | -228 | -167 | -161 | -244 | -328 | -402 | -442 | -415 | -306 | -110 |
| 56 | 93 | 98 | 124 | 154 | 184 | 194 | 104 | -41 | -139 | -173 | -111 | 0 | 112 | 192 | 230 | 271 | 320 | 431 | 623 |
| 793 | 861 | 825 | 805 | 784 | 764 | 745 | 723 | 645 | 373 | 28 | -281 | -550 | -738 | -899 | -959 | -919 | -812 | -643 | -473 |
| -309 | -146 | -35 | -10 | 11 | 8 | -9 | -18 | -4 | 152 | 392 | 545 | 581 | 546 | 416 | 282 | 148 | -28 | -219 | -356 |
| -405 | -449 | -501 | -542 | -552 | -541 | -538 | -531 | -515 | -482 | -451 | -407 | -333 | -254 | -178 | -101 | -24 | 51 | 115 | 156 |
| 180 | 125 | 23 | -61 | -152 | -237 | -317 | -362 | -362 | -301 | -163 | 95 | 337 | 546 | 612 | 574 | 461 | 342 | 288 | 271 |
| 296 | 338 | 352 | 271 | 120 | -6 | -143 | -270 | -364 | -355 | -330 | -319 | -321 | -321 | -284 | -169 | -47 | 70 | 200 | 365 |
| 532 | 651 | 708 | 727 | 655 | 545 | 414 | 309 | 239 | 173 | 102 | 34 | -36 | -105 | -171 | -211 | -201 | -118 | -11 | 30 |
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| -377 | -220 | -64 | 92 | 263 | 461 | 661 | 846 | 948 | 972 | 1007 | 1013 | 968 | 882 | 714 | 541 | 374 | 205 | 37 | -131 |
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| 360 | 403 | 457 | 492 | 492 | 427 | 306 | 158 | 21 | -109 | -182 | -231 | -289 | -336 | -361 | -372 | -363 | -350 | -340 | -328 |
| -305 | -265 | -227 | -185 | -119 | -41 | 27 | 52 | 24 | 3 | -19 | -40 | -55 | -18 | 79 | 169 | 248 | 271 | 260 | 260 |
| 254 | 210 | 100 | -1 | -93 | -182 | -249 | -263 | -220 | -134 | -22 | 26 | 14 | -8 | -21 | 15 | 149 | 287 | 417 | 509 |
| 501 | 472 | 456 | 440 | 455 | 486 | 490 | 443 | 387 | 338 | 284 | 214 | 108 | 0 | -106 | -211 | -310 | -394 | -479 | -564 |
| -642 | -680 | -695 | -727 | -768 | -807 | -825 | -794 | -680 | -442 | -258 | -192 | -135 | -62 | 49 | 188 | 318 | 450 | 582 | 708 |
| 794 | 830 | 845 | 807 | 750 | 651 | 544 | 441 | 338 | 234 | 119 | -62 | -283 | -492 | -696 | -828 | -872 | -862 | -737 | -535 |
| -336 | -177 | -126 | -112 | -79 | -41 | 88 | 293 | 486 | 671 | 786 | 820 | 824 | 767 | 711 | 614 | 440 | 265 | 96 | -76 |
| -246 | -405 | -490 | -504 | -474 | -412 | -386 | -382 | -381 | -382 | -410 | -443 | -455 | -400 | -278 | -80 | 131 | 327 | 466 | 497 |
| 519 | 463 | 368 | 289 | 204 | 123 | 39 | -52 | -193 | -360 | -518 | -671 | -781 | -859 | -918 | -935 | -853 | -649 | -512 | -432 |
| -338 | -192 | 79 | 368 | 647 | 922 | 1105 | 1124 | 1082 | 998 | 929 | 849 | 694 | 423 | 161 | -97 | -315 | -373 | -362 | -403 |
| -503 | -631 | -745 | -864 | -946 | -869 | -713 | -591 | -466 | -376 | -288 | -177 | 45 | 341 | 610 | 828 | 903 | 923 | 870 | 808 |
| 751 | 696 | 635 | 528 | 331 | 137 | -56 | -255 | -464 | -667 | -859 | -966 | -994 | -960 | -915 | -876 | -801 | -643 | -432 | -216 |
| -1 | 212 | 401 | 472 | 485 | 522 | 551 | 574 | 535 | 466 | 431 | 414 | 395 | 370 | 298 | 163 | 36 | -95 | -233 | -378 |
| -518 | -649 | -735 | -773 | -723 | -587 | -403 | -233 | -58 | 135 | 371 | 604 | 796 | 860 | 884 | 918 | 905 | 865 | 812 | 716 |
| 623 | 529 | 438 | 329 | 139 | -115 | -350 | -566 | -677 | -683 | -612 | -561 | -574 | -641 | -693 | -706 | -625 | -474 | -275 | -93 |
| 96 | 279 | 467 | 650 | 793 | 756 | 647 | 592 | 552 | 514 | 461 | 340 | 139 | -46 | -190 | -240 | -284 | -334 | -383 | -432 |
| -485 | -548 | -619 | -683 | -694 | -586 | -433 | -205 | 44 | 278 | 455 | 516 | 573 | 628 | 623 | 557 | 510 | 528 | 608 | 664 |
| 622 | 459 | 313 | 165 | 21 | -127 | -281 | -502 | -779 | -1036 | -1200 | -1230 | -1133 | -942 | -781 | -693 | -690 | -644 | -549 | -337 |
| -89 | 141 | 323 | 406 | 484 | 571 | 679 | 837 | 976 | 1018 | 929 | 814 | 637 | 415 | 210 | 18 | -114 | -232 | -355 | -478 |
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| 453 | 525 | 575 | 574 | 418 | 222 | 47 | -135 | -303 | -406 | -437 | -473 | -475 | -453 | -426 | -335 | -176 | -82 | -41 | 9 |
| 58 | 109 | 169 | 288 | 434 | 541 | 593 | 621 | 544 | 386 | 248 | 105 | -34 | -169 | -258 | -300 | -342 | -361 | -366 | -321 |
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| 454 | 344 | 261 | 207 | 166 | 152 | 154 | 147 | 111 | 0 | -121 | -226 | -292 | -332 | -337 | -272 | -215 | -170 | -149 | -127 |
| -105 | -82 | -61 | -42 | -33 | -24 | -15 | -23 | -63 | -102 | -139 | -169 | -162 | -129 | -105 | -91 | -104 | -111 | -85 | 43 |
| 155 | 181 | 159 | 92 | 11 | -90 | -175 | -230 | -256 | -291 | -322 | -345 | -337 | -318 | -292 | -220 | -128 | 11 | 179 | 337 |
| 485 | 600 | 705 | 732 | 623 | 524 | 438 | 361 | 285 | 207 | 115 | -57 | -272 | -410 | -478 | -513 | -481 | -443 | -414 | -402 |
| -431 | -458 | -464 | -369 | -228 | -119 | -53 | -8 | 46 | 100 | 171 | 260 | 341 | 342 | 184 | 22 | -132 | -251 | -288 | -255 |
| -185 | -8 | 83 | 71 | 39 | -12 | -43 | -32 | 32 | 83 | 116 | 33 | -120 | -226 | -267 | -237 | -153 | 4 | 166 | 287 |
| 363 | 443 | 523 | 595 | 610 | 519 | 423 | 333 | 243 | 152 | 55 | -80 | -235 | -385 | -535 | -661 | -703 | -716 | -751 | -796 |
| -833 | -815 | -720 | -616 | -421 | -184 | 27 | 190 | 321 | 464 | 604 | 745 | 877 | 977 | 1045 | 1020 | 917 | 799 | 590 | 367 |
| 151 | -66 | -283 | -486 | -602 | -636 | -683 | -689 | -633 | -579 | -529 | -477 | -408 | -263 | -88 | 75 | 239 | 360 | 404 | 467 |
| 478 | 466 | 438 | 416 | 393 | 370 | 347 | 324 | 286 | 176 | 32 | -99 | -234 | -348 | -376 | -360 | -363 | -360 | -360 | -358 |
| -357 | -352 | -330 | -294 | -271 | -274 | -286 | -292 | -267 | -177 | -59 | 68 | 189 | 303 | 360 | 377 | 404 | 428 | 445 | 431 |
| 396 | 302 | 173 | 56 | -65 | -184 | -303 | -413 | -479 | -519 | -528 | -475 | -405 | -334 | -265 | -195 | -126 | -59 | -18 | -16 |
| -11 | -6 | 13 | 100 | 239 | 361 | 444 | 421 | 386 | 362 | 360 | 377 | 389 | 396 | 342 | 208 | 83 | -41 | -135 | -172 |
| -201 | -220 | -218 | -224 | -242 | -270 | -294 | -307 | -289 | -266 | -245 | -224 | -198 | -149 | -88 | -19 | 72 | 123 | 151 | 189 |
| 222 | 231 | 192 | 152 | 114 | 91 | 130 | 196 | 250 | 308 | 361 | 380 | 325 | 269 | 216 | 163 | 109 | 57 | 4 | -47 |
| -105 | -173 | -243 | -310 | -371 | -385 | -368 | -351 | -280 | -162 | 361 | -90 | -43 | 32 | 116 | 188 | 223 | 234 | 231 | 153 |
| 53 | -33 | -93 | -118 | -137 | -132 | -129 | -127 | -132 | -147 | -160 | -166 | -169 | -172 | -175 | -178 | -182 | -184 | -167 | -97 |
| -248 | -335 | -421 | -509 | -593 | 262 | 298 | 335 | 370 | 380 | 336 | 287 | 242 | 197 | 151 | 106 | 60 | 8 | -71 | -162 |
| 514 | 489 | 469 | 440 | 387 | -634 | -605 | -579 | -556 | -533 | -497 | -411 | -266 | -92 | 75 | 245 | 412 | 555 | 573 | 531 |
| | | | | | 311 | 241 | 170 | 108 | 69 | 43 | 27 | 56 | 92 | 124 | 156 | 160 | 100 | 25 | -42 |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -108 | -142 | -150 | -163 | -176 | -196 | -241 | -293 | -343 | -390 | -405 | -365 | -329 | -294 | -260 | -225 | -184 | -126 | -63 | -3 |
| 59 | 125 | 197 | 267 | 337 | 391 | 412 | 375 | 314 | 264 | 213 | 172 | 134 | 95 | 56 | 17 | -22 | -61 | -99 | -122 |
| -96 | -56 | -22 | 7 | 25 | 42 | 40 | -16 | -92 | -157 | -211 | -242 | -266 | -250 | -218 | -192 | -165 | -138 | -112 | -85 |
| -59 | -47 | -74 | -111 | -139 | -143 | -119 | -99 | -79 | -75 | -97 | -111 | -85 | -24 | 31 | 88 | 143 | 199 | 254 | 300 |
| 321 | 336 | 330 | 301 | 274 | 248 | 222 | 196 | 169 | 143 | 117 | 91 | 65 | 46 | 29 | 13 | -5 | -26 | -70 | -124 |
| -162 | -148 | -107 | -77 | -50 | -55 | -76 | -90 | -83 | -36 | 37 | 126 | 208 | 275 | 315 | 333 | 336 | 307 | 252 | 206 |
| 156 | 108 | 59 | 11 | -31 | -40 | -34 | -34 | -37 | -73 | -134 | -190 | -247 | -299 | -313 | -276 | -245 | -213 | -183 | -151 |
| -119 | -78 | -33 | 11 | 55 | 98 | 143 | 186 | 220 | 220 | 198 | 140 | 62 | -7 | -78 | -139 | -166 | -179 | -199 | -216 |
| -230 | -209 | -152 | -99 | -33 | 46 | 124 | 198 | 245 | 258 | 270 | 268 | 266 | 273 | 293 | -139 | -166 | -179 | -199 | -216 |
| 11 | -38 | -56 | -59 | -60 | -71 | -120 | -188 | -247 | -289 | -273 | -242 | -219 | -189 | -150 | -105 | -47 | 42 | 131 | 210 |
| 262 | 303 | 338 | 347 | 353 | 356 | 332 | 283 | 218 | 130 | 47 | -34 | -92 | -126 | -163 | -198 | -213 | -202 | -195 | -188 |
| -181 | -174 | -167 | -159 | -144 | -105 | -60 | -18 | 24 | 56 | 70 | 85 | 100 | 113 | 126 | 139 | 148 | 133 | 96 | 65 |
| 32 | 0 | -32 | -64 | -97 | -129 | -159 | -181 | -198 | -217 | -236 | -255 | -272 | -270 | -239 | -211 | -183 | -156 | -128 | -101 |
| -73 | -45 | -17 | 9 | 19 | -6 | -31 | -55 | -79 | -103 | -126 | -136 | -120 | -101 | -84 | -68 | -57 | -56 | -54 | -53 |
| -51 | -50 | -48 | -42 | -28 | -13 | 2 | 17 | 32 | 57 | 95 | 134 | 170 | 191 | 166 | 129 | 98 | 69 | 61 | 69 |
| 74 | 79 | 84 | 89 | 87 | 73 | 57 | 42 | 26 | 12 | 6 | 15 | 23 | 30 | 37 | 45 | 53 | 64 | 78 | 91 |
| 103 | 101 | 72 | 42 | 13 | -16 | -42 | -54 | -60 | -68 | -77 | -93 | -122 | -150 | -171 | -179 | -167 | -132 | -99 | -67 |
| -35 | -3 | 29 | 61 | 88 | 92 | 82 | 78 | 71 | 66 | 60 | 54 | 48 | 48 | 68 | 56 | 120 | 145 | 170 | 195 |
| 219 | 244 | 269 | 294 | 315 | 310 | 276 | 246 | 217 | 195 | 184 | 173 | 161 | 142 | 104 | 63 | 23 | -17 | -44 | -48 |
| -48 | -33 | -12 | 6 | 25 | 44 | 63 | 82 | 98 | 113 | 127 | 126 | 99 | 73 | 47 | 21 | -4 | -30 | -55 | -81 |
| -106 | -132 | -158 | -183 | -209 | -228 | -214 | -184 | -156 | -115 | -76 | -37 | 2 | 41 | 66 | 71 | 77 | 84 | 91 | 97 |
| 104 | 111 | 115 | 100 | 62 | 27 | -9 | -44 | -77 | -105 | -130 | -156 | -182 | -204 | -217 | -229 | -241 | -254 | -264 | -256 |
| -221 | -190 | -159 | -128 | -98 | -68 | -37 | -6 | 27 | 59 | 91 | 108 | 96 | 83 | 71 | 59 | 48 | 33 | 5 | -32 |
| -67 | -102 | -132 | -160 | -189 | -218 | -247 | -260 | -240 | -216 | -176 | -113 | -53 | 7 | 67 | 125 | 162 | 172 | 184 | 195 |
| 192 | 169 | 149 | 128 | 107 | 86 | 62 | 15 | -43 | -97 | -153 | -204 | -237 | -253 | -269 | -259 | -229 | -204 | -177 | -144 |
| -88 | -26 | 34 | 93 | 140 | 160 | 178 | 198 | 217 | 226 | 214 | 200 | 179 | 143 | 108 | 73 | 38 | 0 | -45 | -91 |
| -136 | -179 | -202 | -206 | -203 | -210 | -214 | -218 | -221 | -213 | -166 | -103 | -48 | 10 | 67 | 119 | 155 | 186 | 219 | 250 |
| 266 | 248 | 227 | 209 | 196 | 187 | 175 | 165 | 151 | 117 | 57 | 2 | -42 | -64 | -86 | -110 | -133 | -150 | -143 | -125 |
| -111 | -89 | -62 | -36 | -10 | 16 | 42 | 59 | 63 | 69 | 75 | 88 | 104 | 120 | 135 | 144 | 131 | 111 | 94 | 76 |
| 59 | 41 | 24 | 6 | -11 | -29 | -46 | -64 | -81 | -91 | -83 | -70 | -59 | -47 | -36 | -29 | -31 | -34 | -37 | -39 |
| -42 | -44 | -47 | -49 | -50 | -45 | -39 | -33 | -28 | -24 | -28 | -39 | -47 | -52 | -46 | -39 | -33 | -27 | -21 | -14 |
| -8 | 1 | 17 | 32 | 31 | 18 | 7 | -4 | -15 | -26 | -30 | -20 | -9 | 1 | 11 | 20 | 30 | 40 | 50 | 60 |
| 70 | 77 | 68 | 44 | 23 | 1 | -21 | -42 | -64 | -86 | -107 | -129 | -149 | -149 | -118 | -91 | -64 | -37 | -11 | 9 |
| 27 | 45 | 53 | 47 | 41 | 36 | 31 | 26 | 20 | 15 | 10 | 5 | 3 | 7 | 12 | 16 | 21 | 25 | 30 | 34 |
| 39 | 43 | 46 | 40 | 28 | 17 | 6 | -5 | -16 | -27 | -38 | -49 | -60 | -69 | -65 | -52 | -43 | -32 | -22 | -12 |
| -3 | 3 | 8 | 13 | 18 | 24 | 29 | 34 | 39 | 45 | 50 | 47 | 29 | 10 | -8 | -27 | -45 | -32 | -22 | -12 |
| -81 | -85 | -90 | -95 | -99 | -98 | -82 | -61 | -42 | -22 | -3 | 16 | 34 | 49 | 61 | 73 | 85 | 93 | 84 | 69 |
| 57 | 44 | 32 | 19 | 6 | -7 | -19 | -32 | -45 | -57 | -70 | -83 | -95 | -108 | -120 | -122 | -105 | -86 | -69 | -52 |
| -34 | -17 | -1 | 9 | 19 | 29 | 40 | 50 | 62 | 74 | 86 | 98 | 106 | 100 | 90 | 81 | 72 | 63 | 54 | 41 |
| 22 | 2 | -17 | -35 | -44 | -47 | -49 | -39 | -11 | 16 | 42 | 68 | 94 | 120 | 146 | 172 | 188 | 192 | 197 | 195 |
| 162 | 115 | 74 | 32 | -10 | -48 | -75 | -99 | -124 | -148 | -165 | -161 | -154 | -149 | -143 | -135 | -112 | -74 | -38 | -1 |
| 35 | 68 | 91 | 109 | 129 | 147 | 158 | 146 | 129 | 114 | 96 | 68 | 35 | 5 | -27 | -58 | -85 | -101 | -113 | -127 |
| -137 | -133 | -122 | -115 | -104 | -85 | -65 | -45 | -25 | -6 | 14 | 34 | 51 | 65 | 77 | 91 | 103 | 103 | 87 | 72 |
| 57 | 36 | 14 | -8 | -29 | -51 | -73 | -92 | -95 | -87 | -82 | -76 | -67 | -45 | -20 | 4 | 36 | 81 | 123 | 155 |
| 174 | 194 | 213 | 224 | 219 | 213 | 208 | 203 | 196 | 180 | 139 | 97 | 56 | 15 | -17 | -41 | -66 | -91 | -116 | -141 |
| -167 | -189 | -189 | -164 | -142 | -120 | -98 | -76 | -54 | -32 | -11 | 10 | 20 | 23 | 28 | 33 | 38 | 43 | 48 | 51 |
| 46 | 30 | 14 | -1 | -16 | -27 | -23 | -11 | -2 | 7 | 16 | 25 | 34 | 44 | 53 | 62 | 71 | 78 | 71 | 52 |
| 34 | 16 | -4 | -31 | -59 | -87 | -114 | -142 | -170 | -194 | -191 | -170 | -148 | -116 | -86 | -55 | -24 | 6 | 31 | 49 |
| 68 | 87 | 102 | 110 | 117 | 124 | 131 | 137 | 133 | 109 | 84 | 60 | 36 | 12 | -12 | -36 | -60 | -80 | -95 | -109 |
| -121 | -118 | -102 | -88 | -60 | -27 | 4 | 35 | 66 | 97 | 127 | 146 | 157 | 170 | 182 | 186 | 173 | 158 | 144 | 127 |
| 94 | 53 | 14 | -25 | -64 | -102 | -133 | -154 | -162 | -143 | -123 | -105 | -86 | -67 | -48 | -30 | -11 | 8 | 28 | 48 |
| 68 | 88 | 95 | 77 | 58 | 41 | 23 | 6 | -12 | -29 | -43 | -44 | -41 | -40 | -39 | -36 | -29 | -23 | -16 | -10 |
| -3 | 3 | 10 | 10 | 1 | -8 | -16 | -25 | -33 | -42 | -51 | -66 | -84 | -100 | -116 | -133 | -147 | -148 | -132 | -118 |
| -104 | -89 | -64 | -28 | 6 | 40 | 73 | 106 | 128 | 147 | 165 | 170 | 149 | 126 | 105 | 83 | 62 | 41 | 19 | -2 |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -23 | -45 | -65 | -79 | -84 | -90 | -96 | -96 | -82 | -67 | -51 | -25 | 10 | 44 | 78 | 111 | 137 | 145 | 152 | 159 |
| 160 | 140 | 111 | 86 | 60 | 34 | 8 | 8 | -43 | -69 | -95 | -119 | -135 | -149 | -156 | -145 | -131 | -115 | -81 | -39 |
| 1 | 41 | 76 | 91 | 96 | 105 | 106 | 93 | 77 | 63 | 48 | 33 | 18 | -2 | -30 | -58 | -85 | -109 | -124 | -135 |
| -145 | -142 | -135 | -130 | -124 | -118 | -106 | -90 | -75 | -60 | -44 | -29 | -16 | -10 | -6 | 0 | 5 | 10 | 16 | 21 |
| 26 | 32 | 37 | 42 | 47 | 52 | 50 | 42 | 35 | 29 | 22 | 15 | 8 | 2 | -5 | -12 | -19 | -25 | -32 | -39 |
| -46 | -53 | -59 | -66 | -73 | -76 | -60 | -36 | -15 | 6 | 28 | 49 | 70 | 91 | 101 | 101 | 103 | 105 | 107 | 108 |
| 111 | 112 | 108 | 88 | 63 | 41 | 18 | -4 | -27 | -50 | -73 | -95 | -112 | -106 | -90 | -78 | -64 | -52 | -37 | -16 |
| 9 | 33 | 58 | 81 | 98 | 102 | 106 | 112 | 116 | 112 | 97 | 82 | 59 | 33 | 8 | -17 | -43 | -68 | -93 | -119 |
| -141 | -143 | -130 | -120 | -110 | -99 | -77 | -44 | -11 | 21 | 53 | 85 | 114 | 129 | 136 | 146 | 155 | 161 | 154 | 139 |
| 125 | 102 | 76 | 52 | 27 | 3 | -22 | -47 | -71 | -96 | -120 | -145 | -169 | -186 | -180 | -169 | -161 | -151 | -140 | -125 |
| -111 | -97 | -83 | -68 | -54 | -40 | -26 | -11 | 3 | 17 | 31 | 45 | 60 | 74 | 88 | 99 | 100 | 95 | 92 | 89 |
| 85 | 75 | 59 | 44 | 29 | 14 | -1 | -16 | -31 | -46 | -61 | -73 | -68 | -52 | -39 | -25 | -11 | 3 | 16 | 30 |
| 44 | 58 | 68 | 74 | 80 | 84 | 80 | 64 | 50 | 36 | 22 | 8 | -6 | -20 | -34 | -48 | -62 | -76 | -90 | -104 |
| -115 | -110 | -90 | -73 | -56 | -39 | -24 | -15 | -7 | 1 | 9 | 17 | 19 | 7 | -6 | -18 | -30 | -42 | -54 | -67 |
| -78 | -87 | -94 | -100 | -104 | -94 | -74 | -57 | -39 | -22 | -4 | 14 | 31 | 49 | 66 | 84 | 99 | 110 | 120 | 130 |
| 135 | 122 | 104 | 89 | 70 | 44 | 15 | -13 | -40 | -61 | -68 | -72 | -78 | -82 | -78 | -57 | -35 | -14 | 8 | 29 |
| 51 | 72 | 89 | 97 | 103 | 110 | 117 | 124 | 122 | 101 | 76 | 54 | 30 | 7 | -16 | -39 | -60 | -70 | -76 | -84 |
| -92 | -98 | -91 | -61 | -32 | -3 | 25 | 53 | 81 | 102 | 116 | 131 | 146 | 160 | 160 | 142 | 125 | 109 | 93 | 77 |
| 56 | 26 | -3 | -32 | -60 | -88 | -108 | -124 | -137 | -133 | -122 | -114 | -104 | -96 | -85 | -64 | -39 | -15 | 10 | 34 |
| 57 | 73 | 78 | 85 | 89 | 78 | 56 | 37 | 17 | -3 | -23 | -43 | -62 | -80 | -88 | -88 | -90 | -92 | -94 | -95 |
| -97 | -99 | -101 | -103 | -104 | -104 | -92 | -71 | -53 | -34 | -15 | 4 | 21 | 29 | 27 | 27 | 26 | 27 | 36 | 49 |
| 60 | 71 | 79 | 76 | 71 | 68 | 63 | 59 | 51 | 38 | 26 | 14 | 2 | -6 | -4 | 0 | 2 | 5 | 8 | 11 |
| 14 | 16 | 19 | 22 | 25 | 28 | 30 | 33 | 31 | 21 | 10 | 0 | -8 | -15 | -21 | -28 | -35 | -41 | -48 | -54 |
| -55 | -44 | -31 | -20 | -9 | 2 | 14 | 25 | 37 | 49 | 64 | 78 | 90 | 92 | 87 | 83 | 80 | 76 | 72 | 69 |
| 65 | 61 | 56 | 44 | 25 | 8 | -10 | -28 | -46 | -63 | -70 | -54 | -35 | -18 | -5 | -9 | -19 | -26 | -34 | -38 |
| -34 | -28 | -23 | -18 | -13 | -9 | -13 | -22 | -30 | -38 | -47 | -54 | -54 | -41 | -28 | -16 | -3 | 9 | 21 | 27 |
| 32 | 38 | 41 | 35 | 26 | 18 | 10 | 1 | -7 | -15 | -23 | -29 | -28 | -25 | -23 | -21 | -19 | -17 | -15 | -13 |
| -4 | 10 | 23 | 36 | 49 | 63 | 73 | 71 | 61 | 54 | 45 | 38 | 30 | 22 | 14 | 6 | 0 | -1 | 2 | 4 |
| 6 | 8 | 13 | 22 | 30 | 39 | 46 | 47 | 40 | 34 | 28 | 23 | 17 | 11 | 5 | -2 | -11 | -19 | -28 | -37 |
| -46 | -54 | -63 | -71 | -79 | -80 | -75 | -72 | -68 | -64 | -60 | -57 | -53 | -50 | -47 | | | | | |

IIV318 52.004.0

STATION NO. 134

INSTR PERIOD = 0.045 SEC

PEAK VALS

ACLN = -52.4 CM/SEC/SEC AT 12.50 SEC

INITIAL VELO = -0.31518 CM/SEC

INITIAL DISP = -0.02199 CM

3656 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

VELO = -5.1 CM/SEC AT 11.02 SEC DISP = -3.6 CM AT 46.64 SEC

AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 19 | -42 | -112 | -95 | 4 | 24 | -8 | 43 | 177 | 141 | -73 | -135 | -20 | 66 | 110 | 51 | -71 | -76 | 39 | 82 |
| 18 | -95 | -98 | 7 | 56 | -3 | -77 | -76 | 52 | 169 | 118 | -55 | -49 | 45 | 74 | -25 | -86 | -41 | 47 | 100 |
| 55 | -91 | -230 | -169 | 122 | 174 | -108 | -237 | -108 | 97 | 172 | 44 | -64 | -37 | 22 | 62 | 38 | -137 | -51 | |
| 94 | 110 | 5 | -150 | -161 | 152 | 239 | 52 | -127 | -124 | 58 | 36 | -42 | 8 | 86 | 45 | 11 | -27 | 24 | |
| 71 | -35 | -60 | 141 | 165 | -45 | -226 | -176 | 59 | 70 | -136 | -201 | -77 | 60 | 45 | 16 | 81 | 95 | 8 | -91 |
| -104 | -63 | -22 | 41 | 100 | 103 | 72 | 48 | 10 | -32 | -65 | -46 | 4 | -10 | -51 | -51 | 24 | 81 | 24 | -55 |
| -32 | 59 | 134 | 144 | 40 | -14 | 43 | 59 | -61 | -149 | -112 | -18 | 57 | 126 | 90 | -10 | -57 | 35 | 166 | 181 |
| 65 | -29 | 11 | 153 | 134 | 34 | -35 | -46 | 30 | 101 | 121 | 36 | -54 | -116 | -93 | -49 | -80 | -111 | -105 | 9 |
| 116 | 65 | -26 | -104 | -122 | -38 | 27 | -10 | -99 | -161 | -149 | -46 | 60 | 109 | 78 | 63 | 96 | 175 | 231 | 177 |
| 0 | -159 | -196 | 34 | 171 | 35 | -112 | -154 | -7 | 80 | 33 | -15 | -59 | -88 | -51 | 8 | 65 | 106 | 79 | -17 |
| -18 | 133 | 136 | -280 | -271 | -24 | 2 | -75 | -165 | -156 | -98 | -21 | 51 | 17 | -28 | -62 | -19 | 75 | 105 | 53 |
| 19 | 80 | 181 | 105 | 73 | 121 | 180 | 95 | -60 | -181 | -123 | 79 | 199 | 76 | -28 | -154 | 11 | 93 | -22 | -115 |
| -21 | 64 | 8 | -85 | -159 | -143 | 13 | 118 | 95 | 37 | 32 | 42 | 42 | 7 | -34 | -30 | 42 | 64 | 55 | 54 |
| 47 | 23 | -16 | -51 | -73 | -36 | 29 | 73 | 47 | -31 | -19 | 25 | 26 | -25 | -33 | 27 | 59 | 9 | -8 | 30 |
| 25 | 7 | -4 | 17 | 47 | 69 | 41 | -32 | -78 | -60 | -22 | 10 | 44 | 78 | 109 | 102 | 2 | -114 | -189 | -104 |
| 45 | 16 | -114 | -149 | -27 | 72 | 77 | 46 | -11 | -58 | -74 | -77 | -43 | 54 | 125 | 80 | -12 | 9 | 54 | -1 |
| -49 | -34 | -17 | -43 | -12 | 36 | 34 | 16 | 12 | 26 | 44 | 60 | 70 | 38 | -18 | -68 | -114 | -88 | 31 | 64 |
| -34 | -117 | -137 | -84 | -28 | 21 | 38 | -10 | -82 | -120 | -108 | -60 | 47 | 37 | -70 | -131 | -49 | 87 | 18 | -115 |
| -155 | -35 | 78 | 113 | 117 | 122 | 64 | -51 | -95 | 17 | 87 | 24 | -37 | -91 | -119 | -101 | -8 | 103 | 117 | 28 |
| -43 | -33 | 25 | 34 | -19 | -74 | -81 | -35 | -50 | -66 | -37 | -58 | -85 | -66 | 46 | 103 | 28 | -12 | 42 | 110 |
| 85 | -14 | -25 | 55 | 93 | 80 | 13 | -42 | -33 | 64 | 46 | -43 | -104 | -89 | -23 | 28 | 87 | 140 | 183 | 135 |
| 32 | -46 | -44 | 18 | 38 | 38 | 26 | -7 | -28 | 0 | 37 | 67 | 58 | -13 | -59 | -17 | 48 | -4 | -99 | -131 |
| -80 | -31 | 15 | 36 | 43 | 48 | 33 | -30 | -94 | -124 | -66 | 2 | -22 | -88 | -139 | -104 | 101 | 267 | 240 | 107 |
| 9 | -55 | -24 | -2 | 25 | 0 | -115 | -224 | -138 | 48 | 151 | 67 | -88 | -90 | 9 | 67 | 43 | 16 | -11 | -37 |
| -86 | -185 | -256 | -156 | -8 | -3 | -130 | -238 | -245 | -93 | 51 | 120 | 36 | -132 | 13 | 37 | 58 | 47 | -50 | -91 |
| 39 | 166 | 259 | 210 | 98 | 29 | 23 | 27 | -16 | -61 | -58 | -48 | -82 | -111 | -113 | -22 | 85 | 101 | 11 | -101 |
| -116 | -7 | 90 | 95 | 53 | 78 | 121 | 52 | -74 | -145 | -114 | -56 | -40 | -32 | -1 | 60 | 48 | -8 | 15 | 39 |
| 17 | -101 | -215 | -281 | -238 | -182 | -130 | -90 | -114 | -181 | -179 | -52 | 107 | 248 | 300 | 156 | 23 | 45 | 126 | 34 |
| -13 | 87 | 212 | 216 | 127 | -182 | 69 | 40 | 25 | 10 | -5 | -37 | -101 | -157 | -192 | -208 | -143 | -45 | 44 | 137 |
| 226 | 317 | 346 | 237 | 117 | 153 | 250 | 259 | 92 | -109 | -260 | -193 | 22 | 109 | 39 | -29 | 32 | 157 | 188 | 64 |
| -65 | -180 | -249 | -232 | -90 | 99 | 226 | 161 | 45 | -23 | -7 | 32 | 66 | 118 | 202 | 285 | 326 | 254 | 147 | 52 |
| -50 | -146 | -248 | -344 | -446 | -524 | -449 | -153 | 125 | 293 | 203 | 95 | 101 | 291 | 454 | 435 | 217 | 31 | -36 | 100 |
| 211 | 242 | 197 | 113 | -33 | -153 | -220 | -218 | -229 | -232 | -242 | -244 | -228 | -184 | -143 | -102 | -65 | -31 | -5 | -47 |
| -161 | -171 | 14 | 204 | 373 | 401 | 237 | 80 | -15 | 94 | 180 | 14 | -146 | -80 | -80 | 21 | 79 | 1 | -112 | -208 |
| -264 | -297 | -318 | -252 | -142 | -52 | 4 | -1 | -45 | -33 | 43 | 53 | 30 | 14 | -4 | -21 | -39 | -56 | -70 | -63 |
| -42 | -26 | -19 | -30 | -41 | -47 | -23 | 41 | 101 | 164 | 223 | 262 | 190 | 63 | -47 | -139 | -183 | -135 | -55 | -19 |
| -19 | -20 | -20 | -19 | -18 | 16 | 96 | 182 | 261 | 328 | 280 | 143 | 14 | -110 | -141 | 9 | 155 | 209 | 54 | -119 |
| -241 | -212 | -134 | -67 | 0 | 22 | -53 | -132 | -146 | -83 | -26 | 34 | 92 | 151 | 209 | 267 | 309 | 279 | 209 | 151 |
| 88 | 27 | -35 | -91 | -92 | -10 | 72 | 143 | 128 | -5 | -125 | -173 | -83 | 2 | 71 | 19 | -103 | -202 | -217 | -166 |
| -98 | 19 | 117 | 65 | 1 | -56 | -109 | -102 | -19 | 13 | -102 | -235 | -152 | 23 | 15 | -57 | -105 | -102 | -61 | -28 |
| 8 | 48 | 106 | 169 | 227 | 235 | 154 | 75 | -2 | -57 | -79 | -22 | 92 | 130 | 30 | -81 | -183 | -250 | -275 | -229 |
| -96 | -1 | 21 | 34 | 50 | 65 | 77 | 68 | 28 | -8 | -26 | 14 | 64 | 106 | 88 | 1 | -83 | -159 | -159 | -57 |
| 39 | 90 | 40 | -21 | -48 | -11 | 46 | 116 | 146 | 98 | 44 | -8 | -60 | -104 | -122 | -133 | -145 | -158 | -162 | -94 |
| 84 | 108 | -9 | -101 | -95 | 16 | 93 | 121 | 168 | 259 | 312 | 222 | 97 | 17 | 67 | 168 | 182 | 65 | -49 | -107 |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -134 | -158 | -151 | -147 | -136 | -109 | -71 | -96 | -139 | -158 | -100 | -21 | 28 | 70 | 124 | 189 | 211 | 123 | 18 | -60 |
| -35 | 46 | 107 | 125 | 75 | 29 | -18 | -58 | -59 | -29 | -5 | 21 | 45 | 72 | 96 | 106 | 61 | -5 | -66 | -124 |
| -141 | -107 | -91 | -96 | -101 | -106 | -110 | -103 | -67 | -21 | 18 | 39 | 42 | 21 | -48 | -112 | -155 | -114 | -44 | -20 |
| -66 | -116 | -163 | -195 | -138 | -28 | 3 | -35 | -74 | -93 | -54 | 82 | 249 | 390 | 420 | 364 | 323 | 266 | 200 | 131 |
| 64 | -5 | -72 | -131 | -123 | -46 | 26 | 83 | 109 | 131 | 133 | 87 | 20 | -91 | -207 | -281 | -212 | -84 | 9 | 2 |
| -76 | -67 | -28 | 6 | 40 | 53 | 13 | -34 | -34 | -8 | 10 | 9 | -9 | -19 | -22 | -19 | -20 | -32 | -74 | -117 |
| -143 | -123 | -84 | -48 | 20 | 119 | 218 | 265 | 241 | 177 | 110 | 46 | -20 | -83 | -131 | -78 | 31 | 92 | 72 | 18 |
| -28 | -104 | -184 | -225 | -140 | -15 | 53 | 6 | -42 | -8 | 35 | 71 | 81 | 72 | 68 | 62 | 58 | 52 | 48 | 36 |
| -18 | -113 | -165 | -165 | -91 | -23 | 38 | 32 | -17 | -14 | 73 | 106 | 50 | 0 | -29 | 26 | 112 | 157 | 93 | -19 |
| -118 | -198 | -133 | 15 | 21 | -40 | -84 | -111 | -115 | -121 | -119 | -79 | -6 | 59 | 129 | 195 | 264 | 329 | 361 | 303 |
| 226 | 171 | 150 | 134 | 104 | 70 | 37 | 1 | -72 | -215 | -313 | -310 | -244 | -208 | -242 | -269 | -238 | -145 | -21 | 58 |
| 48 | 24 | 8 | 57 | 121 | 157 | 126 | 81 | 58 | 79 | 81 | 56 | 64 | 59 | -9 | -78 | -132 | -136 | -60 | -35 |
| -55 | -32 | -17 | -66 | -146 | -208 | -211 | -144 | -47 | 51 | 52 | 32 | 16 | 1 | 3 | 36 | 36 | -4 | -40 | -72 |
| -58 | 13 | 67 | 51 | 12 | 37 | 102 | 62 | -19 | -21 | 26 | 69 | 113 | 154 | 161 | 97 | 15 | -98 | -147 | -77 |
| -11 | -13 | -62 | -71 | 17 | 93 | 131 | 123 | 61 | 36 | 67 | 104 | 70 | 8 | -9 | 44 | 87 | 47 | -47 | -96 |
| -131 | -110 | -77 | -45 | -14 | 19 | 49 | 66 | 39 | -2 | -29 | -17 | 12 | 35 | 52 | 28 | -15 | -28 | 0 | 30 |
| 58 | 81 | 70 | 44 | 33 | 60 | 103 | 137 | 127 | 72 | -3 | -94 | -126 | -43 | 48 | 107 | 55 | -52 | -142 | -208 |
| -185 | -140 | -110 | -100 | -96 | -89 | -83 | -77 | -68 | -40 | 0 | 21 | 31 | 60 | 109 | 146 | 130 | 84 | 55 | 57 |
| 77 | 41 | -22 | -44 | 28 | 110 | 126 | 71 | 19 | -34 | -85 | -138 | -188 | -241 | -291 | -315 | -281 | -239 | -194 | -105 |
| 33 | 151 | 162 | 90 | 34 | -23 | -33 | -8 | -14 | -64 | -62 | 31 | 123 | 202 | 199 | 126 | 62 | -4 | -56 | -93 |
| -128 | -155 | -110 | 4 | 52 | 12 | -30 | -69 | -101 | -71 | 8 | 80 | 155 | 218 | 223 | 187 | 161 | 131 | 104 | 74 |
| 50 | 69 | 144 | 145 | 47 | -50 | -57 | -263 | -338 | -311 | -248 | -194 | -138 | -82 | -22 | 41 | 95 | 88 | 16 | -43 |
| -48 | 19 | 77 | 135 | 184 | 188 | 105 | 29 | 7 | 81 | 132 | 112 | 57 | 15 | -35 | -87 | -163 | -236 | -267 | -196 |
| -117 | -74 | -94 | -114 | -126 | -111 | -87 | -59 | -16 | 35 | 82 | 115 | 119 | 122 | 126 | 130 | 133 | 137 | 130 | 98 |
| 59 | 23 | -8 | 0 | 29 | 9 | -30 | -62 | -72 | -36 | -24 | -43 | -60 | -77 | -84 | -76 | -67 | -58 | -47 | -18 |
| 34 | 84 | 135 | 182 | 195 | 156 | 118 | -60 | 43 | 8 | -19 | -46 | -72 | -98 | -124 | -149 | -155 | -136 | -119 | -101 |
| -84 | -66 | -49 | -29 | 5 | 58 | 109 | 145 | 131 | 99 | 72 | 43 | 18 | 32 | 124 | 209 | 224 | 157 | 95 | 32 |
| -30 | -93 | -155 | -215 | -223 | -146 | -68 | 4 | 36 | 23 | 11 | -1 | -2 | 60 | 156 | 158 | 90 | 32 | -16 | -8 |
| 24 | 50 | 79 | 106 | 125 | 92 | 26 | -34 | -96 | -153 | -189 | -201 | -212 | -182 | -105 | -32 | 11 | -30 | -97 | -153 |
| -152 | -55 | 23 | 83 | 137 | 128 | 83 | 57 | 113 | 238 | 313 | 272 | 182 | 109 | 46 | 55 | 93 | 122 | 112 | 33 |
| -41 | -59 | 7 | 32 | -27 | -99 | -166 | -233 | -290 | -304 | -237 | -117 | 8 | 87 | 76 | 57 | 53 | 82 | 124 | 162 |
| 201 | 239 | 278 | 316 | 321 | 260 | 188 | 122 | 55 | 6 | -31 | -91 | -200 | -311 | -323 | -174 | -23 | 111 | 144 | 82 |
| 23 | -53 | -127 | -165 | -124 | -74 | -28 | 5 | 28 | 52 | 77 | 97 | 92 | 56 | 22 | -13 | -48 | -83 | -112 | -105 |
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| 65 | 8 | -46 | -35 | 50 | 115 | 102 | 32 | -21 | -64 | -33 | 58 | 93 | 91 | 59 | 10 | -55 | -98 | -124 | -126 |
| -92 | -68 | -60 | -50 | -41 | -31 | -22 | -12 | 1 | 36 | 84 | 122 | 125 | 86 | 53 | 40 | 60 | 78 | 97 | 109 |
| 119 | 126 | 114 | 76 | 39 | 2 | -28 | -17 | 22 | 54 | 70 | 37 | -6 | -45 | -67 | -79 | -96 | -126 | -167 | -204 |
| -217 | -164 | -95 | -38 | -13 | -6 | 6 | 16 | 27 | 37 | 48 | 58 | 68 | 72 | 72 | 73 | 72 | 58 | 29 | 1 |
| -27 | -55 | -82 | -93 | -55 | -7 | 16 | 34 | 53 | 71 | 84 | 74 | 52 | 34 | 14 | -4 | -16 | -12 | -3 | 5 |
| 9 | -16 | -63 | -107 | -151 | -159 | -99 | -41 | -44 | -89 | -115 | -102 | -38 | 72 | 167 | 206 | 189 | 132 | 74 | 9 |
| -49 | -83 | -68 | -18 | 26 | 48 | 18 | -18 | -52 | -72 | -26 | 55 | 124 | 164 | 118 | 58 | 2 | -52 | -77 | -60 |
| -53 | -83 | -128 | -126 | -81 | -42 | -47 | -80 | -95 | -62 | 2 | 55 | 90 | 81 | 73 | 64 | 56 | 48 | 59 | 110 |
| 142 | 119 | 93 | 63 | 31 | -1 | -33 | -65 | -96 | -129 | -160 | -192 | -223 | -243 | -229 | -197 | -135 | -62 | 3 | 47 |
| 79 | 114 | 133 | 123 | 111 | 100 | 89 | 81 | 96 | 120 | 120 | 91 | 63 | 35 | 7 | -22 | -50 | -78 | -103 | -100 |
| -66 | -46 | -56 | -69 | -78 | -69 | -48 | -21 | 18 | 55 | 92 | 120 | 121 | 85 | 51 | 19 | 4 | -2 | 2 | 20 |
| 29 | 5 | -28 | -29 | 3 | 27 | 38 | 44 | 46 | 29 | 9 | -10 | -29 | -47 | -60 | -72 | -84 | -95 | -103 | -88 |
| -53 | -20 | 14 | 47 | 80 | 113 | 143 | 158 | 169 | 180 | 181 | 141 | 82 | 32 | 8 | 11 | 8 | 9 | 19 | 43 |
| 66 | 81 | 60 | 23 | -9 | -43 | -75 | -97 | -86 | -67 | -56 | -72 | -100 | -115 | -92 | -51 | -18 | 3 | 7 | 13 |
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| -2 | 1 | 25 | 8 | 24 | 38 | 45 | 30 | 6 | -16 | -39 | -61 | -78 | -63 | -23 | 12 | 46 | 51 | 31 | 14 |
| 31 | 48 | 9 | 48 | 70 | 85 | 78 | 64 | 51 | 37 | 24 | 11 | -2 | -15 | -29 | -41 | -48 | -33 | -11 | 10 |
| 31 | 48 | 42 | 24 | 9 | 7 | -13 | 2 | 20 | 26 | 11 | -8 | -24 | -27 | -10 | 7 | 23 | 39 | 45 | 28 |
| 6 | -14 | -35 | -55 | -75 | -96 | -112 | -121 | -131 | -136 | -104 | -31 | 14 | 30 | 29 | 18 | 10 | 0 | -8 | -7 |
| 20 | 52 | 82 | 100 | 95 | 91 | 87 | 83 | 89 | 112 | 134 | 131 | 74 | 5 | -59 | -105 | -105 | -96 | -91 | -84 |
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| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|
| 31 | -4 | -40 | -75 | 12 | 1 | -10 | -15 | 11 | 54 | 93 | 128 | 129 | 102 | 78 | 55 | 42 | 37 | 32 | 27 | 22 | 15 |
| -4 | -26 | -43 | -46 | -110 | -125 | -100 | -28 | 4 | -40 | -14 | -7 | -10 | -10 | -12 | -12 | -6 | 6 | 19 | 31 | 36 | 21 |
| 16 | 15 | 25 | 35 | 45 | 44 | 55 | 55 | 65 | 75 | 84 | 90 | 96 | 101 | 97 | 69 | 31 | -4 | 26 | 46 | 39 | 26 |
| -59 | -64 | -69 | -68 | -63 | -63 | -59 | -51 | -55 | -51 | -46 | -42 | -38 | -34 | -30 | -26 | -22 | -18 | -13 | -10 | -5 | -54 |
| -3 | -11 | -19 | -23 | -15 | -15 | -2 | 10 | 22 | 22 | 26 | 15 | 3 | -9 | -25 | -43 | -61 | -18 | -87 | -81 | -74 | -69 |
| -62 | -54 | -38 | -21 | -11 | -11 | -17 | -26 | -26 | -34 | -42 | -43 | -26 | -8 | 9 | 26 | 37 | 20 | -9 | -28 | -9 | 32 |
| 40 | 23 | 19 | 35 | 47 | 47 | 34 | 9 | -13 | -13 | -35 | -48 | -35 | -13 | 16 | 53 | 60 | 31 | 3 | -19 | -8 | 25 |
| 53 | 68 | 50 | 31 | 12 | 12 | -7 | -22 | -22 | -27 | -28 | -31 | -33 | -35 | -37 | -43 | -60 | -83 | -102 | -100 | -59 | -18 |
| 18 | 35 | 40 | 28 | 7 | 7 | 15 | 39 | 39 | 60 | 81 | 100 | 105 | 95 | 89 | 81 | 73 | 66 | 58 | 48 | 37 | 27 |
| 16 | 6 | -5 | -15 | -26 | -26 | -34 | -29 | -29 | -16 | -5 | 7 | 22 | 42 | 62 | 71 | 58 | 43 | 29 | 15 | 0 | -14 |
| -27 | -33 | -23 | -13 | -3 | -3 | 7 | 16 | 16 | 15 | 5 | -4 | -13 | -22 | -30 | -29 | -25 | -22 | -19 | -16 | -13 | -10 |
| -7 | -3 | 0 | 3 | 6 | 6 | 9 | 12 | 12 | 16 | 21 | 33 | 44 | 56 | 67 | 75 | 71 | 61 | 53 | 44 | 36 | 26 |
| 15 | 3 | -9 | -21 | -33 | -33 | -44 | -46 | -46 | -34 | -21 | -9 | 4 | 16 | 21 | 10 | -3 | -16 | -28 | -39 | -41 | -37 |
| -35 | -32 | -30 | -27 | -20 | -20 | -7 | 6 | 6 | 12 | 1 | -11 | -23 | -35 | -47 | -58 | -63 | -40 | -4 | 24 | 26 | 11 |
| 0 | -12 | -23 | -31 | -28 | -28 | -24 | -19 | -19 | -15 | -11 | -6 | 1 | 9 | 18 | 26 | 33 | 33 | 27 | 22 | 16 | 11 |
| 5 | 0 | -5 | -5 | 0 | 0 | 6 | 10 | 10 | 8 | 0 | -7 | -8 | 4 | 15 | 27 | 38 | 47 | 43 | 31 | 21 | 11 |
| 7 | 4 | 0 | -3 | -6 | -6 | -7 | 2 | 2 | 19 | 35 | 50 | 58 | 62 | 68 | 73 | 78 | 82 | 79 | 72 | 67 | 60 |
| 55 | 48 | 38 | 26 | 15 | 15 | 4 | 0 | 0 | 9 | 18 | 26 | 29 | 18 | 6 | 1 | 9 | 21 | 31 | 40 | 40 | 34 |
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| 2 | 5 | 8 | 12 | 18 | 18 | 30 | 41 | 41 | 44 | 31 | 18 | 5 | -8 | -21 | -31 | -32 | -30 | -30 | -29 | -28 | -28 |
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| 17 | 33 | 42 | 48 | 53 | 53 | 59 | 67 | 67 | 77 | 78 | 70 | 63 | 56 | 49 | 40 | 22 | -3 | -27 | -48 | -59 | -64 |
| -63 | -63 | -63 | -64 | -63 | -63 | -58 | -50 | -50 | -43 | -35 | -28 | -18 | -1 | 17 | 34 | 43 | 42 | 41 | 40 | 37 | 33 |
| 30 | 26 | 18 | 4 | -11 | -11 | -20 | -15 | -15 | -11 | -18 | -26 | -34 | -41 | -40 | -30 | -21 | -12 | -3 | 9 | 22 | 35 |
| 48 | 51 | 35 | 31 | 33 | 33 | 33 | 34 | 34 | 35 | 34 | 24 | 5 | -13 | -31 | -49 | -65 | -75 | -84 | -93 | -100 | -91 |
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| 31 | 23 | 14 | 5 | -4 | -4 | -13 | -14 | -14 | -5 | 4 | 10 | 3 | -8 | -17 | -21 | -18 | -14 | -10 | -7 | -3 | 1 |
| 4 | 7 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 11 | 10 | 3 | -4 | -11 | -19 | -26 | -29 | -26 | -23 | -20 | -17 | -15 |
| -14 | -13 | -12 | -12 | -13 | -13 | -16 | -20 | -20 | -23 | -26 | -29 | -30 | -22 | -9 | 0 | 3 | 2 | 2 | 2 | 2 | -2 |
| -12 | -23 | -33 | -39 | -34 | -34 | -27 | -21 | -21 | -15 | -11 | -11 | -11 | -11 | -11 | -11 | -11 | -13 | -15 | -18 | -20 | -23 |
| -25 | -28 | -30 | -29 | -21 | -21 | -13 | -5 | -5 | 3 | 8 | 11 | 15 | 19 | 22 | 23 | 18 | 12 | 7 | 4 | 3 | 2 |
| 1 | 0 | 3 | 12 | 20 | 20 | 23 | 18 | 18 | 14 | 9 | 6 | 7 | 10 | 12 | 15 | 17 | 19 | 16 | 10 | 6 | 1 |
| -4 | -9 | -10 | -8 | -6 | -6 | -5 | -3 | -3 | -1 | 0 | 2 | 4 | 2 | -3 | -9 | -15 | -25 | -37 | -48 | -48 | -42 |
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| 11 | 12 | 13 | 14 | 15 | 15 | 17 | 17 | 17 | 13 | 4 | -5 | -14 | -20 | -22 | -24 | -27 | -29 | -31 | -34 | -35 | -24 |
| 3 | 19 | 13 | 0 | -8 | -8 | -4 | 7 | 7 | 15 | 19 | 16 | 12 | 12 | 20 | 29 | 38 | 43 | 38 | 28 | 20 | 11 |
| 3 | 5 | -8 | -8 | -9 | -9 | -9 | -10 | -10 | -11 | -12 | -12 | -13 | -15 | -16 | -18 | -17 | -5 | 12 | 12 | 4 | -2 |
| -8 | -5 | 3 | 10 | 16 | 16 | 23 | 30 | 30 | 33 | 28 | 23 | 17 | 12 | 7 | 6 | 13 | 15 | 7 | -2 | -10 | -18 |
| -19 | -7 | -7 | 6 | 19 | 26 | 26 | 25 | 25 | 25 | 24 | 24 | 23 | 22 | 22 | 21 | 21 | 22 | 25 | 30 | 33 | 33 |
| 22 | 11 | 0 | 0 | -11 | -18 | -21 | -25 | -25 | -28 | -32 | -36 | -39 | -38 | -27 | -14 | -1 | 11 | 24 | 31 | 25 | 20 |
| 21 | 25 | 28 | 31 | 35 | 35 | 37 | 35 | 35 | 33 | 31 | 28 | 26 | 24 | 21 | 19 | 17 | 14 | 11 | 7 | 4 | 0 |
| -3 | -7 | -10 | -9 | -4 | -4 | 0 | 5 | 5 | 9 | 14 | 19 | 23 | -20 | -10 | -1 | 4 | -5 | -13 | -22 | -31 | -34 |
| -34 | -34 | -34 | -35 | -35 | -35 | -35 | -35 | -35 | -35 | -35 | -35 | -30 | -20 | -10 | -1 | 9 | 19 | 28 | 34 | 35 | -37 |
| 39 | 41 | 43 | 45 | 45 | 45 | 37 | 24 | 24 | 13 | 1 | -8 | -12 | -13 | -14 | -16 | -17 | -19 | -20 | -21 | -23 | -24 |
| -26 | -27 | -29 | -30 | -31 | -31 | -33 | -32 | -32 | -25 | -17 | -10 | -2 | 5 | 9 | 5 | 1 | -4 | -8 | -13 | -17 | -18 |
| -11 | -4 | 3 | 10 | 17 | 17 | 24 | 31 | 31 | 38 | 43 | 41 | 36 | 32 | 28 | 23 | 19 | 15 | 10 | 6 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 16 | 18 | 18 | 20 | 20 | 21 | 23 | 27 |
| 33 | 39 | 44 | 46 | 39 | 39 | 33 | 27 | 27 | 21 | 14 | 8 | 2 | -4 | -10 | -17 | -23 | -29 | -35 | -41 | -46 | -39 |
| -26 | -14 | -2 | 11 | 23 | 23 | 35 | 48 | 48 | 55 | 51 | 44 | 38 | 32 | 26 | 19 | 13 | 7 | 1 | -5 | -12 | -18 |
| -24 | -30 | -34 | -34 | -32 | -32 | -31 | -30 | -30 | -29 | -28 | -27 | -26 | -25 | -24 | -23 | -22 | -21 | -20 | -19 | -18 | -17 |
| -16 | -15 | -14 | -13 | -11 | -11 | -8 | -3 | -3 | 1 | 5 | 9 | 13 | 15 | 16 | 17 | 18 | 19 | 20 | 20 | 21 | 22 |
| 23 | 24 | 22 | 15 | 7 | 7 | -1 | -9 | -9 | -17 | -24 | -30 | -29 | -26 | -24 | -21 | -19 | -16 | -14 | -11 | -9 | -6 |

IIV319 52.012.0
STATION NO. 83
INSTR PERIOD = 0.080 SEC

SOUTHERN CALIFORNIA EARTHQUAKE NOV 21, 1952 - 2346 PST
CITY RECREATION BLDG., SAN LUIS OBISPO, CAL.
DAMPING = 0.607

EPICENTER - 35 50 OON, 121 10 OOW
COMP N36W 35 17 OON, 120 40 OOW
ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = 52.9 CM/SEC/SEC AT 1.58 SEC VELO = 3.4 CM/SEC AT 1.78 SEC DISP = -0.8 CM AT 14.32 SEC

INITIAL VELO = 0.16796 CM/SEC INITIAL DISP = 0.33331 CM

2442 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -71 | -40 | -30 | -39 | -50 | -57 | -36 | -14 | -22 | -41 | -52 | -55 | -57 | -58 | -48 | -31 | -12 | 11 | 33 | 27 |
| 0 | -24 | -46 | -71 | -116 | -101 | -55 | -12 | -16 | -20 | 1 | 25 | 52 | 52 | 32 | 9 | 15 | 55 | 97 | 121 |
| 102 | 114 | 153 | 180 | 202 | 214 | 228 | 224 | 151 | 56 | -26 | -76 | -106 | -106 | -152 | -235 | -333 | -362 | -232 | -82 |
| 93 | 168 | 76 | -51 | -82 | -14 | 61 | 123 | 83 | 18 | -61 | -140 | -244 | -294 | -259 | -134 | 40 | 223 | 442 | 529 |
| 419 | 236 | 171 | 136 | 136 | 147 | 167 | 168 | 108 | 27 | -64 | -156 | -256 | -367 | -436 | -356 | -196 | 25 | 64 | -64 |
| -235 | -385 | -344 | -212 | -23 | 145 | 305 | 343 | 263 | 186 | 142 | 77 | -37 | -166 | -308 | -334 | -230 | -89 | 63 | 173 |
| 168 | 160 | 208 | 286 | 309 | 217 | 88 | -37 | -84 | -96 | -78 | -55 | -14 | 7 | -4 | -15 | 18 | 69 | 112 | 133 |
| 145 | 164 | 126 | -9 | -125 | -186 | -119 | -44 | 53 | 0 | -135 | -217 | -272 | -309 | -317 | -279 | -195 | -91 | -48 | -26 |
| 19 | 112 | 200 | 270 | 233 | 163 | 74 | -31 | -93 | -131 | -102 | -23 | 67 | 109 | 126 | 126 | 116 | 91 | 43 | -11 |
| -31 | -15 | -5 | 11 | 51 | 104 | 136 | 105 | 25 | -77 | -168 | -259 | -282 | -206 | -82 | 26 | 57 | 65 | 82 | 125 |
| 143 | 114 | 48 | -4 | -28 | -52 | -81 | -105 | -71 | -25 | 20 | 23 | -6 | -39 | -27 | 11 | 55 | 79 | 61 | 47 |
| 50 | 60 | 59 | 36 | 34 | 50 | 65 | 74 | 81 | 89 | 69 | 26 | -35 | -106 | -178 | -227 | -198 | -124 | -40 | 46 |
| 106 | 134 | 136 | 108 | 80 | 51 | 63 | 89 | 121 | 125 | 92 | 32 | -42 | -90 | -102 | -113 | -121 | -143 | -170 | -196 |
| -187 | -160 | -133 | -104 | -75 | -38 | 17 | 79 | 107 | 103 | 97 | 89 | 94 | 102 | 116 | 132 | 144 | 128 | 100 | 59 |
| 24 | -4 | -41 | -94 | -129 | -147 | -151 | -136 | -118 | -72 | -27 | -4 | 12 | 14 | 18 | 39 | 66 | 90 | 78 | 48 |
| 18 | -9 | -6 | 12 | 30 | 49 | 68 | 64 | 35 | 21 | 30 | 40 | 36 | 22 | 9 | -4 | -3 | -13 | -33 | -55 |
| -43 | -16 | 16 | 24 | -2 | -31 | -64 | -85 | -62 | -20 | 0 | -13 | -30 | -37 | -19 | -1 | 23 | 29 | 12 | -10 |
| -29 | -43 | -56 | -52 | -37 | -22 | -5 | 4 | 2 | 1 | 8 | 17 | 26 | 40 | 57 | 61 | 31 | -7 | -44 | -76 |
| -70 | -40 | -2 | 43 | 61 | 42 | 21 | 7 | -3 | -15 | -19 | -7 | 9 | 18 | 1 | 12 | 47 | 85 | 94 | 85 |
| 74 | 63 | 52 | 40 | 29 | 18 | 9 | 14 | 23 | 30 | 15 | -8 | -23 | -29 | -39 | -58 | -79 | -101 | -124 | -146 |
| -139 | -123 | -100 | -75 | -49 | -25 | -1 | 4 | 0 | -5 | 6 | 23 | 48 | 75 | 105 | 111 | 93 | 72 | 51 | 30 |
| 8 | -7 | 9 | 32 | 56 | 72 | 76 | 79 | 80 | 66 | 47 | 33 | 31 | 31 | 18 | -5 | -29 | -55 | -59 | -44 |
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| -13 | -22 | -35 | -40 | -28 | -13 | -1 | 9 | 12 | 13 | 23 | 62 | 98 | 115 | 127 | 140 | 158 | 175 | 194 | 203 |
| 181 | 153 | 123 | 97 | 74 | 52 | 28 | 7 | -8 | -21 | -32 | -26 | -15 | 0 | 3 | -8 | -16 | -11 | -1 | 0 |
| -13 | -30 | -41 | -38 | -32 | -35 | -40 | -38 | -35 | -32 | -33 | -34 | -38 | -46 | -55 | -63 | -59 | -50 | -46 | -52 |
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| 73 | 66 | 64 | 53 | 38 | 22 | 8 | 4 | 4 | 4 | 4 | 5 | 9 | 13 | 17 | 21 | 24 | 18 | 5 | 0 |
| 12 | 26 | 36 | 44 | 51 | 49 | 38 | 28 | 16 | 15 | 21 | 30 | 24 | 5 | -13 | -22 | -28 | -33 | -39 | -43 |
| -42 | -40 | -37 | -35 | -30 | -25 | -19 | -13 | -11 | -19 | -31 | -37 | -35 | -32 | -29 | -25 | -20 | -15 | -10 | -5 |
| 0 | 3 | 1 | -4 | -9 | -13 | -18 | -27 | -38 | -49 | -55 | -43 | -27 | -14 | -4 | 8 | 13 | 7 | -1 | -9 |
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| 4 | 7 | 11 | 15 | 20 | 24 | 29 | 26 | 21 | 19 | 21 | 22 | 29 | 42 | 56 | 68 | 76 | 76 | 75 | 73 |
| 68 | 59 | 52 | 50 | 45 | 31 | 15 | 10 | 15 | 17 | 9 | 0 | -9 | -18 | -22 | -23 | -39 | -48 | -54 | -54 |
| -61 | -62 | -58 | -54 | -49 | -45 | -43 | -43 | -43 | -42 | -42 | -38 | -32 | -26 | -23 | -28 | -35 | -42 | -48 | -42 |
| -32 | -14 | 8 | 31 | 48 | 61 | 72 | 76 | 77 | 78 | 70 | 61 | 52 | 53 | 58 | 62 | 63 | 63 | 63 | 60 |
| 48 | 33 | 18 | 5 | -6 | -16 | -22 | -21 | -20 | -16 | -12 | -6 | -2 | 4 | 5 | 2 | -2 | -3 | 1 | 4 |
| 8 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 19 | 16 | 13 | 9 | 5 | 2 | 0 | 0 | -6 | -19 | -30 | -39 |
| -39 | -32 | -24 | -16 | -8 | -6 | -10 | -12 | -8 | -2 | 2 | -5 | -16 | -24 | -30 | -36 | -36 | -35 | -33 | -27 |
| -19 | -8 | 5 | 15 | 17 | 18 | 19 | 20 | 18 | 15 | 11 | 7 | 2 | -1 | -5 | -6 | -3 | 0 | 4 | 7 |
| 3 | -7 | -11 | -6 | -1 | 4 | 10 | 13 | 7 | -1 | -8 | -7 | -2 | 2 | -4 | -14 | -23 | -32 | -39 | -35 |
| -27 | -18 | -10 | -1 | 9 | 10 | 0 | -8 | -12 | -14 | -16 | -16 | -15 | -15 | -15 | -15 | -16 | -14 | -6 | 4 |
| 14 | 18 | 16 | 13 | 10 | 10 | 14 | 18 | 22 | 19 | 17 | 22 | 30 | 36 | 33 | 26 | 19 | 12 | 12 | 13 |
| 15 | 12 | 8 | 4 | 0 | -3 | -1 | 5 | 11 | 17 | 17 | 13 | 10 | 6 | 2 | -1 | -5 | -7 | -9 | -10 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -13 | -11 | -5 | 2 | 9 | 16 | 13 | 1 | -3 | 0 | 4 | 8 | 12 | 13 | 8 | 3 | 6 | 11 | 16 | 17 |
| 15 | 13 | 13 | 13 | 15 | 17 | 21 | 24 | 29 | 30 | 24 | 14 | 4 | -5 | -5 | -2 | 1 | -2 | -8 | -15 |
| -18 | -16 | -14 | -11 | -10 | -12 | -12 | -7 | 1 | 9 | 18 | 21 | 19 | 16 | 13 | 10 | 5 | -2 | -10 | -18 |
| -23 | -25 | -27 | -28 | -30 | -31 | -33 | -32 | -31 | -28 | -29 | -33 | -37 | -42 | -46 | -45 | -41 | -37 | -33 | -29 |
| -25 | -21 | -17 | -13 | -9 | -7 | -5 | -4 | -2 | 0 | 1 | 4 | 6 | 9 | 11 | 14 | 16 | 18 | 16 | 15 |
| 13 | 11 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 5 | 2 | -2 | -6 | -7 | -5 | -3 | -1 | 1 | 3 |
| 7 | 11 | 15 | 18 | 22 | 18 | 12 | 6 | 8 | 15 | 22 | 27 | 24 | 20 | 16 | 12 | 6 | 1 | -6 | -7 |
| -2 | 4 | 10 | 14 | 11 | 8 | 4 | 0 | -4 | -8 | -10 | -5 | 1 | 8 | 14 | 19 | 19 | 20 | 26 | 26 |
| 32 | 32 | 26 | 20 | 14 | 7 | 1 | -4 | -10 | -14 | -13 | -11 | -11 | -16 | -21 | -26 | -22 | -17 | -11 | -11 |
| -15 | -20 | -24 | -28 | -30 | -32 | -34 | -35 | -37 | -39 | -39 | -33 | -27 | -19 | -17 | -20 | -22 | -18 | -12 | -6 |
| -3 | -3 | -7 | -7 | -14 | -22 | -26 | -17 | -7 | -6 | -13 | -9 | -1 | 8 | 2 | -15 | -24 | -12 | 8 | 23 |
| 18 | 6 | -1 | 5 | 15 | 10 | -18 | -34 | -20 | 5 | 27 | 18 | 0 | 8 | 25 | 43 | 41 | 22 | 12 | 27 |
| 33 | 8 | -19 | -32 | -34 | -26 | -16 | -5 | 6 | 18 | 29 | 36 | 27 | 13 | -2 | -8 | 5 | 13 | 11 | 9 |
| 16 | 26 | 29 | 7 | -12 | -22 | -30 | -36 | -32 | -19 | 6 | 36 | 60 | 52 | 33 | 24 | 34 | 46 | 56 | 54 |
| 46 | 40 | 43 | 42 | 22 | -5 | -23 | -32 | -26 | -17 | -7 | -2 | -2 | 2 | 21 | 39 | 54 | 39 | 17 | -1 |
| -18 | -26 | -24 | -18 | -12 | -9 | -8 | -8 | -9 | -11 | -13 | -16 | -18 | -20 | -15 | -6 | 3 | -5 | -22 | -32 |
| -39 | -37 | -29 | -20 | -12 | -6 | -1 | -7 | -20 | -20 | -13 | -6 | -8 | -17 | -20 | -15 | -10 | -5 | -12 | -23 |
| -37 | -42 | -24 | -9 | 10 | 8 | 7 | 26 | 44 | 40 | 28 | 3 | -6 | 2 | 12 | 26 | 35 | 30 | 20 | 10 |
| 3 | -5 | -11 | -19 | -19 | -8 | 6 | 17 | 25 | 33 | 31 | 23 | 21 | 25 | 25 | 17 | 7 | -2 | -7 | -12 |
| -14 | -9 | -3 | 2 | 6 | 8 | 4 | -1 | -5 | 3 | 13 | 26 | 30 | 20 | 10 | -1 | -4 | -3 | -1 | -2 |
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| 21 | 18 | 13 | 6 | -2 | -10 | -13 | -13 | -13 | -12 | -12 | -11 | -8 | -4 | 0 | 2 | 3 | 3 | 2 | -2 |
| -5 | -9 | -12 | -12 | -10 | -9 | -7 | -6 | -6 | -7 | -8 | -8 | -10 | -9 | -5 | 0 | 5 | 10 | 15 | 20 |
| 20 | 19 | 17 | 16 | 14 | 13 | 15 | 19 | 23 | 21 | 14 | 8 | 1 | -5 | -8 | -10 | -12 | -14 | -13 | -10 |
| -7 | -3 | -1 | 0 | 1 | 2 | 3 | 1 | -2 | -4 | -7 | -6 | -3 | 0 | 4 | 6 | 5 | 4 | 3 | 2 |
| 1 | 0 | -1 | -1 | -2 | -3 | -3 | -1 | 3 | 6 | 6 | 4 | 2 | -1 | -3 | -6 | -8 | -10 | -12 | -13 |
| -14 | -15 | -13 | -10 | -7 | -3 | 0 | 3 | 5 | 3 | 1 | -1 | -4 | -5 | -5 | -4 | -4 | -3 | 2 | 9 |
| 13 | 12 | 11 | 9 | 8 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 2 | -1 | -3 | -5 |
| -7 | -10 | -12 | -14 | -16 | -19 | -19 | -17 | -16 | -14 | -11 | -6 | -4 | -5 | -7 | -9 | -12 | -14 | -16 | -17 |
| -15 | -12 | -10 | -7 | 0 | 7 | 14 | 22 | 29 | 30 | 26 | 22 | 17 | 12 | 11 | 11 | 12 | 14 | 15 | 15 |
| 14 | 13 | 12 | 10 | 9 | 8 | 6 | 4 | 3 | 1 | -1 | -4 | -7 | -9 | -12 | -13 | -14 | -15 | -16 | -16 |
| -11 | -6 | 0 | 6 | 8 | 8 | 7 | 6 | 6 | 5 | 4 | 4 | 3 | 1 | -1 | -3 | -5 | -7 | -9 | -10 |
| -10 | -9 | -9 | -8 | -7 | -6 | -6 | -4 | -2 | 1 | 3 | 6 | 9 | 11 | 11 | 8 | 6 | 3 | 0 | -2 |
| -5 | -4 | -2 | 0 | 3 | 4 | 4 | 4 | 3 | 3 | 2 | 2 | 1 | 1 | 0 | -1 | -2 | -3 | -4 | -4 |
| -3 | -3 | 2 | 10 | 18 | 16 | 10 | 3 | -2 | -3 | -3 | -3 | -4 | -4 | -3 | 1 | 5 | 10 | 12 | 8 |
| 4 | 0 | -4 | -2 | 2 | 6 | 11 | 11 | 8 | 5 | 2 | -2 | -5 | -9 | -10 | -8 | -6 | -4 | -2 | 1 |
| 3 | 4 | 3 | 2 | 1 | 2 | 3 | 5 | 6 | 8 | 9 | 10 | 10 | 9 | 7 | 5 | 4 | 2 | 0 | -2 |
| -3 | -4 | -4 | -5 | -5 | -5 | -6 | -6 | -6 | -7 | -7 | -7 | -8 | -8 | -8 | -9 | -9 | -9 | -8 | -7 |
| -6 | -5 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 10 | 11 | 12 | 12 |
| -2 | -4 | -5 | -7 | -9 | -11 | -11 | -9 | -7 | -4 | -7 | -5 | -4 | 6 | 4 | 6 | 7 | 7 | 7 | 6 |
| 9 | 6 | 3 | 0 | -3 | -5 | -6 | -7 | -8 | -9 | -7 | -5 | -2 | 1 | -3 | -4 | -4 | -4 | -5 | -6 |
| 6 | 5 | 4 | 2 | 1 | 0 | 0 | 1 | 2 | 3 | 2 | 1 | -1 | -3 | -4 | -4 | -4 | -8 | -6 | -4 |
| -7 | -8 | -10 | -11 | -13 | -14 | -16 | -18 | -20 | -21 | -20 | -20 | -19 | -18 | -15 | -12 | -9 | -8 | -6 | -4 |
| -2 | 0 | 3 | 6 | 9 | 10 | 10 | 9 | 8 | 7 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 13 | 14 | 11 |
| 8 | 5 | 2 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 5 | 5 | 4 | 4 | 3 | 1 | -2 | -5 | -8 |
| -11 | -15 | -15 | -11 | -7 | -4 | 0 | 4 | 8 | 9 | 7 | 5 | 3 | 2 | 0 | -2 | -4 | -5 | -3 | 0 |
| 2 | 5 | 8 | 10 | 12 | 12 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 6 | 4 | 3 | 2 | 0 | -1 | -1 |
| -1 | -1 | -1 | -1 | -2 | -2 | -4 | -2 | -2 | 0 | 1 | 2 | 3 | 3 | 4 | 3 | 2 | 0 | -1 | -2 |
| -4 | -5 | -6 | -7 | -6 | -5 | -4 | -3 | -3 | 0 | 2 | 0 | -2 | -3 | -4 | -6 | -7 | -8 | -7 | -6 |
| -4 | -3 | -2 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 5 | 6 | 7 | 8 |
| 8 | 8 | 8 | 7 | 5 | 4 | 3 | 2 | 1 | 0 | -1 | -2 | -2 | -4 | -5 | -5 | -4 | -3 | -2 | 0 |
| 1 | 2 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | -2 | -3 | -5 | -6 | -7 | -8 | -9 | -8 | -7 | -5 | -4 |
| -2 | -1 | 1 | 2 | 4 | 5 | 5 | 4 | 2 | 1 | -1 | -2 | -4 | -5 | -7 | -7 | -7 | -7 | -6 | -6 |
| -2 | -1 | 1 | 2 | 4 | 5 | 5 | 4 | 2 | 1 | -1 | -2 | -4 | -5 | -7 | -7 | -7 | -7 | -6 | -6 |
| -6 | -5 | -5 | -4 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 6 | 5 | 4 | 5 |

IIV319 52.012.0 SOUTHERN CALIFORNIA EARTHQUAKE NOV 21, 1952 - 2346 PST EPICENTER - 35 50 00N, 121 10 00W
 STATION NO. 83 CITY RECREATION BLDG., SAN LUIS OBISPO, CAL. COMP S54W 35 17 00N, 120 40 00W
 INSTR PERIOD = 0.079 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -35.4 CM/SEC/SEC AT 2.06 SEC VELO = 2.9 CM/SEC AT 5.60 SEC DISP = -1.3 CM AT 10.36 SEC

INITIAL VELO = -0.47272 CM/SEC INITIAL DISP = -0.02396 CM
 2445 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 11 | 44 | 33 | 6 | -17 | -15 | -2 | 14 | 23 | 32 | 33 | 22 | -18 | -64 | -80 | -44 | -2 | 47 | 62 | 35 |
| -19 | -64 | -81 | -68 | -44 | -7 | 18 | 28 | 31 | 31 | 31 | 37 | 47 | 50 | 39 | 22 | -7 | -18 | 31 | 117 |
| 161 | 155 | 122 | 99 | 104 | 124 | 115 | 68 | 34 | 10 | -15 | -92 | -160 | -196 | -171 | -134 | -106 | -84 | -81 | -88 |
| -87 | -76 | -59 | -52 | -10 | 62 | 136 | 194 | 219 | 169 | 66 | -16 | -33 | -62 | -127 | -176 | -146 | -43 | 110 | 295 |
| 326 | 156 | -66 | -257 | -300 | -222 | -109 | -8 | 61 | 115 | 126 | 64 | -29 | -117 | -109 | -15 | 52 | 87 | 92 | 56 |
| -69 | -202 | -314 | -354 | -262 | -47 | 59 | 71 | 37 | -91 | -164 | -114 | -62 | -17 | 30 | 98 | 192 | 218 | 181 | 138 |
| 118 | 159 | 207 | 261 | 258 | 212 | 156 | 110 | 95 | 83 | 52 | -2 | -86 | -178 | -272 | -339 | -291 | -217 | -125 | -93 |
| -160 | -247 | -236 | -147 | -64 | 6 | 74 | 101 | 70 | 78 | 140 | 210 | 267 | 277 | 278 | 285 | 292 | 219 | 102 | -23 |
| -153 | -244 | -268 | -248 | -203 | -121 | -47 | 2 | -4 | -39 | -73 | -78 | -47 | -5 | 2 | -31 | -75 | -67 | 22 | 99 |
| 181 | 217 | 171 | 108 | 71 | 55 | 41 | 30 | 35 | 48 | 56 | 27 | -35 | -115 | -143 | -160 | -175 | -196 | -180 | -135 |
| -101 | -76 | -59 | -44 | -19 | 28 | 49 | 53 | 65 | 85 | 104 | 124 | 128 | 121 | 114 | 107 | 120 | 152 | 194 | 207 |
| 173 | 135 | 50 | -27 | -93 | -129 | -129 | -126 | -132 | -142 | -135 | -123 | -112 | -119 | -131 | -146 | -151 | -123 | -93 | -74 |
| -59 | -38 | -4 | 20 | 23 | 28 | 76 | 139 | 182 | 205 | 200 | 173 | 140 | 100 | 69 | 43 | 27 | 19 | 13 | -13 |
| -54 | -77 | -82 | -65 | -46 | -19 | 15 | 64 | 118 | 178 | 193 | 151 | 117 | 89 | 67 | 41 | 36 | 49 | 68 | 59 |
| 19 | -58 | -138 | -173 | -184 | -176 | -168 | -152 | -133 | -113 | -103 | -103 | -101 | -92 | -78 | -39 | 5 | 41 | 70 | 96 |
| 105 | 85 | 64 | 24 | -12 | -36 | -59 | -76 | -70 | -58 | -45 | -33 | -22 | -33 | -63 | -98 | -138 | -160 | -130 | -42 |
| 38 | 80 | 104 | 91 | 67 | 37 | 5 | -6 | -3 | 0 | -3 | -9 | -15 | -14 | 1 | 16 | 35 | 37 | 24 | 5 |
| -1 | 8 | 31 | 69 | 97 | 118 | 110 | 92 | 73 | 54 | 38 | 37 | 40 | 24 | -3 | -20 | -35 | -49 | -62 | -54 |
| -37 | -28 | -45 | -66 | -88 | -95 | -88 | -80 | -66 | -49 | -29 | -23 | -32 | -44 | -39 | -12 | 9 | 26 | 39 | 52 |
| 46 | 41 | 45 | 53 | 58 | 53 | 46 | 38 | 51 | 73 | 101 | 107 | 83 | 52 | 4 | -16 | -25 | -32 | -40 | -47 |
| -47 | -36 | -28 | -32 | -44 | -56 | -69 | -78 | -84 | -89 | -93 | -79 | -51 | 9 | 30 | 26 | 20 | 20 | 25 | 25 |
| 20 | 16 | 31 | 49 | 64 | 74 | 72 | 70 | 67 | 62 | 45 | 23 | 5 | 3 | 4 | -4 | -16 | -37 | -71 | -77 |
| -61 | -40 | -30 | -37 | -40 | -32 | -20 | -16 | -20 | -20 | -15 | -10 | -12 | -26 | -39 | -55 | -53 | -33 | -13 | 6 |
| 20 | 14 | 1 | -8 | -4 | 1 | 2 | -3 | -8 | -13 | -18 | -22 | -14 | -2 | 12 | 26 | 43 | 58 | 76 | 82 |
| 72 | 61 | 49 | 37 | 26 | 14 | 10 | 18 | 18 | 11 | 7 | 17 | 24 | 19 | 13 | 5 | 11 | 29 | 46 | 37 |
| 19 | 0 | -20 | -34 | -42 | -45 | -39 | -35 | -24 | -6 | 12 | 17 | 13 | 7 | 5 | 13 | 24 | 37 | 51 | 48 |
| 27 | 0 | -19 | -24 | -28 | -26 | -18 | -9 | 0 | 0 | -3 | -5 | -1 | 6 | 12 | 20 | 22 | 17 | 11 | 4 |
| 0 | 3 | 3 | -5 | -12 | -18 | -22 | -26 | -26 | -21 | -17 | -12 | -6 | 3 | 10 | 18 | 25 | 33 | 29 | 17 |
| 4 | 1 | 11 | 21 | 33 | 39 | 35 | 30 | 25 | 25 | 25 | 26 | 29 | 36 | 42 | 49 | 58 | 68 | 77 | 84 |
| 78 | 69 | 58 | 50 | 47 | 46 | 47 | 51 | 49 | 32 | 11 | -9 | -13 | -10 | -6 | -1 | -3 | -12 | -23 | -31 |
| -36 | -41 | -45 | -50 | -55 | -55 | -51 | -47 | -44 | -41 | -38 | -38 | -42 | -46 | -51 | -57 | -58 | -50 | -38 | -23 |
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| -11 | -14 | -17 | -18 | -19 | -19 | -20 | -21 | -22 | -22 | -22 | -17 | -11 | -6 | -11 | -20 | -30 | -40 | -50 | -57 |
| -51 | -40 | -28 | -22 | -19 | -18 | -16 | -14 | -13 | -17 | -23 | -30 | -37 | -44 | -50 | -57 | -54 | -46 | -38 | -30 |
| -23 | -16 | -10 | -5 | -1 | 4 | 2 | -2 | -2 | 2 | 5 | 1 | -4 | -11 | -17 | -23 | -21 | -14 | -6 | 4 |
| 14 | 25 | 34 | 40 | 45 | 51 | 52 | 44 | 35 | 25 | 16 | 6 | -4 | -8 | -4 | 2 | 3 | -1 | -4 | 3 |
| 13 | 23 | 33 | 43 | 51 | 47 | 39 | 40 | 47 | 54 | 51 | 43 | 35 | 32 | 32 | 32 | 28 | 22 | 16 | 10 |
| 8 | 11 | 15 | 12 | 2 | -7 | -9 | -4 | 0 | 6 | 4 | -5 | -15 | -19 | -19 | -18 | -17 | -19 | -19 | -25 |
| -31 | -37 | -41 | -43 | -44 | -40 | -33 | -25 | -19 | -14 | -9 | -4 | 0 | 1 | 9 | 21 | 34 | 41 | 37 | 30 |
| 23 | 18 | 20 | 23 | 26 | 30 | 30 | 27 | 29 | 33 | 37 | 38 | 34 | 30 | 28 | 30 | 31 | 33 | 35 | 35 |
| 31 | 26 | 22 | 17 | 14 | 13 | 13 | 13 | 13 | 10 | 6 | 4 | 10 | 9 | 3 | -4 | -10 | -18 | -19 | -14 |
| -9 | -2 | 3 | 0 | -5 | -11 | -18 | -27 | -35 | -42 | -45 | -42 | -36 | -30 | -24 | -19 | -13 | -9 | -11 | -15 |
| -19 | -23 | -27 | -29 | -27 | -23 | -20 | -20 | -24 | -28 | -31 | -35 | -38 | -32 | -22 | -13 | -4 | -6 | -10 | -15 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -16 | -11 | -5 | 1 | 7 | 11 | 12 | 12 | 13 | 11 | 5 | -2 | -11 | -15 | -15 | -13 | -12 | -10 | -9 | -7 |
| -6 | -4 | -3 | -1 | -1 | -1 | -2 | -2 | -3 | -4 | -5 | -6 | -7 | -8 | -10 | -11 | -9 | -6 | -3 | 1 |
| 5 | 8 | 11 | 14 | 17 | 20 | 23 | 24 | 25 | 27 | 28 | 30 | 29 | 29 | 28 | 27 | 26 | 24 | 18 | 11 |
| 4 | -1 | -3 | -3 | -3 | -2 | -2 | -2 | -2 | -4 | -6 | -9 | -9 | -9 | -2 | 1 | -2 | -6 | -9 | -6 |
| -2 | 2 | 6 | 11 | 15 | 20 | 24 | 24 | 21 | 18 | 15 | 12 | 8 | 5 | 4 | 7 | 7 | 1 | -6 | -13 |
| -18 | -23 | -27 | -32 | -31 | -27 | -23 | -18 | -14 | -10 | -8 | -12 | -16 | -21 | -26 | -29 | -31 | -32 | -33 | -34 |
| -34 | -31 | -28 | -25 | -22 | -18 | -14 | -9 | -4 | 0 | 5 | 10 | 12 | 14 | 15 | 17 | 15 | 12 | 9 | 5 |
| 2 | -2 | -5 | -8 | -6 | -1 | 1 | 1 | 0 | -1 | -1 | -1 | 4 | 2 | 4 | 6 | 8 | 9 | 11 | 13 |
| 14 | 16 | 17 | 19 | 20 | 19 | 17 | 15 | 13 | 11 | 9 | 6 | 4 | 2 | -1 | -3 | -5 | -5 | -4 | -4 |
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| -31 | -29 | -21 | -21 | -16 | -12 | -13 | -16 | -15 | -8 | 0 | 8 | 16 | 24 | 32 | 41 | 43 | 30 | 13 | 1 |
| 6 | 14 | 12 | 4 | -3 | -1 | 7 | 15 | 23 | 30 | 38 | 46 | 44 | 35 | 24 | 18 | 18 | 20 | 21 | 19 |
| 16 | 12 | 7 | -2 | -12 | -23 | -33 | -41 | -38 | -33 | -29 | -33 | -44 | -49 | -41 | -30 | -17 | -4 | -1 | -9 |
| -18 | -29 | -29 | -17 | -4 | 11 | 20 | 12 | 0 | -13 | -19 | 3 | 21 | 20 | 14 | 18 | 26 | 35 | 41 | 39 |
| 31 | 26 | 4 | -17 | -22 | -10 | 11 | 34 | 35 | 18 | 1 | 4 | 16 | 29 | 33 | 24 | 13 | 5 | -1 | -6 |
| -10 | -14 | -16 | -12 | -7 | -2 | 4 | 6 | -2 | -13 | -20 | -21 | -23 | -23 | -17 | -7 | 7 | 26 | 38 | 30 |
| 17 | 8 | -1 | -6 | 2 | 12 | 21 | 24 | 20 | 14 | 7 | -16 | -35 | -48 | -57 | -60 | -53 | -35 | 6 | 32 |
| 32 | 20 | 6 | -4 | -4 | -3 | -1 | 3 | 8 | 12 | 17 | 21 | 24 | 27 | 23 | 14 | 11 | 12 | 14 | 16 |
| 18 | 18 | 17 | 15 | 13 | 10 | 5 | 6 | 13 | 13 | 7 | 2 | 8 | 17 | 14 | 7 | -1 | -8 | -4 | 5 |
| 3 | -4 | -13 | -17 | -13 | -8 | -2 | -6 | -16 | -12 | -3 | 7 | 16 | 12 | 2 | -5 | -4 | -3 | -1 | 1 |
| 2 | -1 | -8 | -14 | -21 | -20 | -12 | -3 | 1 | -2 | -6 | -10 | -10 | -7 | -3 | -4 | 1 | 18 | 18 | 8 |
| -2 | -5 | -6 | -6 | -7 | -7 | -4 | 2 | 8 | 14 | 15 | 11 | 8 | 3 | -1 | -4 | -5 | -4 | -2 | 0 |
| 2 | 3 | 5 | 6 | 2 | -4 | -8 | -6 | -4 | -1 | 1 | 4 | 7 | 8 | 5 | 1 | -4 | -8 | -12 | -11 |
| -6 | -2 | 3 | 6 | 3 | -2 | -7 | -13 | -15 | -13 | -10 | -8 | -5 | -2 | -2 | -6 | -9 | -6 | 0 | 6 |
| 14 | 15 | 10 | 4 | -2 | -8 | -9 | -2 | 5 | 13 | 20 | 21 | 15 | 7 | 0 | -6 | 0 | 1 | 2 | 3 |
| 5 | 6 | 7 | 7 | 2 | -3 | -9 | -11 | -11 | -9 | -8 | -7 | -6 | -4 | -3 | -2 | -1 | 1 | -3 | -8 |
| -15 | -15 | -10 | -5 | 1 | 4 | 3 | 0 | -4 | -7 | -11 | -13 | -13 | -12 | -12 | -11 | -11 | -11 | -10 | -10 |
| -9 | -8 | -7 | -5 | -3 | -2 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 10 | 8 | 5 | 5 | 1 |
| 0 | 0 | 1 | 1 | 2 | 2 | 3 | 4 | -8 | -12 | -13 | -4 | -6 | -8 | -11 | -13 | -15 | -16 | -18 | -20 |
| -1 | 0 | 2 | 4 | 6 | 8 | 10 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 21 | 18 | 14 | 11 | 7 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | -1 |
| -3 | -4 | -6 | -7 | -9 | -11 | -12 | -13 | -14 | -16 | -16 | -15 | -14 | -12 | -11 | -10 | -8 | -9 | -10 | -10 |
| -9 | -8 | -6 | -4 | -3 | -1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 3 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 0 | -1 | -1 | -2 | -3 | -4 | -5 | -6 | -7 | -7 |
| -8 | -8 | -8 | -8 | -8 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -7 | -3 | 0 | 4 | 8 | 12 | 15 | 19 |
| 22 | 23 | 23 | 22 | 21 | 20 | 20 | 20 | 19 | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 |
| 9 | 8 | 7 | 6 | 5 | 4 | 2 | 1 | 0 | -1 | -1 | -1 | -1 | -2 | -4 | -8 | -12 | -16 | -20 | -23 |
| -23 | -20 | -17 | -14 | -11 | -8 | -5 | -4 | -4 | -3 | -2 | -2 | -1 | -1 | 0 | 1 | 0 | -1 | -3 | -4 |
| -6 | -8 | -9 | -8 | -7 | -6 | -6 | -5 | -4 | -3 | -2 | -2 | -1 | 2 | 7 | 12 | 17 | 22 | 27 | 27 |
| 25 | 22 | 20 | 18 | 15 | 13 | 11 | 9 | 7 | 6 | 4 | 2 | 1 | -1 | 0 | 3 | 5 | 8 | 11 | 13 |
| 10 | 5 | -1 | -6 | -11 | -17 | -19 | -18 | -17 | -16 | -15 | -13 | -12 | -11 | -9 | -7 | -5 | -3 | -1 | 0 |
| -1 | -3 | -5 | -7 | -8 | -10 | -12 | -12 | -12 | -11 | -10 | -9 | -8 | -7 | -6 | -5 | -4 | -3 | -2 | -1 |
| 1 | 2 | 3 | 5 | 6 | 8 | 9 | 11 | 12 | 12 | 12 | 11 | 10 | 9 | 8 | 6 | 5 | 4 | 3 | 2 |
| 1 | 0 | -1 | -3 | -4 | -5 | -6 | -8 | -9 | -10 | -11 | -13 | -13 | -9 | -5 | -1 | 3 | 4 | 10 | 10 |
| 10 | 10 | 10 | 10 | 10 | 9 | 8 | 7 | 5 | 4 | 3 | 2 | 0 | -1 | -2 | -1 | -1 | -1 | -8 | -10 |
| -11 | -13 | -14 | -16 | -16 | -15 | -15 | -15 | -14 | -14 | -13 | -13 | -13 | -12 | -10 | -8 | -5 | -5 | -3 | -1 |
| 1 | 2 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 6 | 5 | 5 | 3 | -8 | -7 | -5 | -3 | -1 |
| -2 | -2 | -1 | -1 | 0 | 0 | 1 | 2 | 2 | 3 | 3 | 2 | 1 | -1 | -2 | -3 | -4 | -4 | -6 | -7 |
| -9 | -9 | -9 | -9 | -8 | -8 | -8 | -7 | -7 | -7 | -6 | -5 | -4 | -2 | -1 | 1 | 3 | 4 | 5 | 5 |
| 5 | 5 | 5 | 4 | 4 | 3 | 3 | 3 | 4 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 14 | 16 | 16 | 16 |
| 15 | 14 | 13 | 12 | 12 | 11 | 10 | 10 | 9 | 8 | 7 | 6 | 6 | 5 | 4 | 3 | 3 | 2 | 1 | 0 |
| -1 | -1 | -2 | -4 | -5 | -6 | -7 | -8 | -7 | -7 | -6 | -6 | -5 | -5 | -4 | -4 | -3 | -1 | 2 | 5 |
| 7 | 10 | 12 | 15 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 9 | 8 | 7 | 6 | 5 | 4 | 4 | 2 | 1 |
| -3 | -4 | -6 | -6 | -6 | -5 | -4 | -3 | -2 | -1 | -1 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | -1 |
| -3 | -4 | -6 | -6 | -6 | -5 | -4 | -3 | -2 | -1 | -1 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 4 |

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3 | 2 | 1 | 0 | 0 | -1 | -2 | -2 | -3 | -4 | -5 | -5 | -6 | -7 | -7 | -7 | -6 | -6 | -5 |
| -5 | -4 | -4 | -3 | -3 | -2 | -1 | -1 | -2 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 5 | 6 |
| 6 | 5 | 3 | 1 | -1 | -3 | -4 | -4 | -4 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 9 |
| 10 | 11 | 11 | 10 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | -3 | -4 | -6 |
| -7 | -8 | -9 | -10 | -11 | -10 | -9 | -8 | -7 | -6 | -5 | -4 | -3 | -3 | -4 | -5 | -7 | -8 | -8 |
| -9 | -10 | -11 | -12 | -11 | -9 | -7 | -5 | -5 | -2 | -10 | -11 | -10 | -8 | 6 | 5 | 3 | 2 | 1 |
| 0 | -1 | -2 | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -7 | -4 | -3 | -2 | -2 | 0 | 2 | 2 | 4 |
| 6 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 4 |
| 3 | 3 | 2 | 2 | 1 | 1 | 0 | 0 | -1 | -2 | -4 | -7 | -5 | -6 | -6 | -8 | -10 | -10 | -10 |
| -11 | -12 | -13 | -13 | -14 | -13 | -12 | -11 | -10 | -9 | -8 | -7 | -6 | -5 | -5 | -4 | -3 | -3 | -3 |
| -2 | -2 | -1 | -1 | -1 | -1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | -1 | -1 | -2 |
| -2 | -2 | -3 | -3 | -4 | -4 | -4 | -3 | -2 | -2 | -1 | 0 | 0 | 1 | 2 | 2 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 4 | 4 | 3 | 3 | 2 | 2 | 1 | 0 | 0 |
| -1 | -1 | -1 | -1 | -1 | -2 | -2 | -2 | -2 | -2 | -3 | -3 | -2 | -3 | -3 | -4 | -4 | -4 | -4 |
| -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -5 | -4 | -3 | -2 | 0 | 2 | 3 | 7 | 8 | 10 |
| 12 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 0 | -1 | -2 | -5 | -5 | -4 |
| -3 | -1 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 6 | 1 | -1 | -3 |
| -4 | -3 | -3 | -2 | -1 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| 7 | 6 | 5 | 4 | 2 | 1 | 0 | 0 | 1 | -1 | -2 | -3 | -3 | -4 | -5 | -5 | -6 | -6 | -7 |
| -8 | -8 | -9 | -10 | -10 | -8 | -5 | -2 | 1 | 4 | 7 | 10 | 12 | 12 | 13 | 13 | 13 | 13 | 14 |
| 14 | 14 | 14 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 5 | 4 | 3 | 2 | 1 | 1 | 0 | 0 |
| -1 | -1 | -2 | -3 | -4 | -5 | -6 | -8 | -9 | -10 | -12 | -12 | -14 | -15 | -15 | -15 | -15 | -15 | -16 |
| -16 | -16 | -16 | -16 | -16 | -16 | -15 | -14 | -13 | -12 | -11 | -10 | -9 | -8 | -7 | -6 | -5 | -5 | -4 |
| -4 | -3 | -3 | -2 | -2 | -2 | -2 | -2 | -3 | -4 | -11 | -11 | -9 | -10 | -7 | -6 | -5 | -4 | -4 |

IIV319 52.012.0 SOUTHERN CALIFORNIA EARTHQUAKE NOV 21, 1952 - 2346 PST
 STATION NO. 83 CITY RECREATION BLDG., SAN LUIS OBISPO, CAL.
 INSTR PERIOD = 0.081 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -26.4 CM/SEC/SEC AT 2.02 SEC VELO = -2.6 CM/SEC AT 2.16 SEC DISP = -1.2 CM AT 3.00 SEC

2443 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
 INITIAL VELO = 0.11131 CM/SEC INITIAL DISP = 0.08736 CM

| | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|------|
| 2 | -10 | -17 | -15 | -8 | -1 | 1 | 1 | 0 | -5 | -6 | 2 | 11 | 11 | 5 | -3 | -4 | 4 | -6 |
| -18 | -12 | 7 | 23 | 31 | 19 | 2 | -10 | 0 | 14 | 22 | 24 | 27 | 28 | 18 | 2 | -5 | -9 | -37 |
| -56 | -64 | -47 | -24 | 3 | 27 | 50 | 62 | 61 | 59 | 56 | 54 | 52 | 37 | -69 | -40 | -51 | -49 | -41 |
| -51 | -68 | -53 | 11 | 52 | 51 | 26 | -15 | -64 | -89 | -103 | -105 | -92 | -79 | -69 | -61 | -52 | -69 | -114 |
| -66 | 13 | 91 | 165 | 163 | 133 | 102 | 67 | 51 | 71 | 99 | 105 | 90 | 78 | 69 | 42 | -12 | -71 | -137 |
| -255 | -264 | -225 | -176 | -125 | -98 | -90 | -52 | 31 | 110 | 156 | 184 | 186 | 151 | 54 | -33 | -78 | -97 | -196 |
| -92 | -55 | 46 | 134 | 195 | 194 | 123 | 52 | 23 | 38 | 53 | 44 | 20 | -6 | -11 | 4 | 22 | 13 | -102 |
| -116 | -97 | -53 | -8 | 4 | 16 | 46 | 81 | 108 | 130 | 147 | 163 | 168 | 133 | 85 | 63 | 57 | 34 | -73 |
| -77 | -103 | -89 | -44 | 13 | 48 | 45 | 17 | -36 | -67 | -51 | -22 | 9 | 38 | 24 | -9 | -42 | -57 | -62 |
| -59 | -37 | -15 | 13 | 34 | 43 | 48 | 55 | 65 | 80 | 85 | 72 | 30 | -31 | -69 | -84 | -83 | -69 | -44 |
| -31 | -47 | -51 | -40 | -42 | -50 | -61 | -64 | -51 | -35 | -17 | -5 | -1 | -1 | 15 | 51 | 88 | 103 | 106 |
| 122 | 124 | 87 | 17 | -30 | -35 | -32 | -27 | -24 | -29 | -37 | -45 | -54 | -57 | -46 | -33 | -32 | -35 | -38 |
| 2 | 30 | 59 | 89 | 104 | 85 | 61 | 35 | 9 | -17 | -38 | -55 | -70 | -79 | -81 | -61 | -33 | 3 | 60 |
| 69 | 50 | 29 | -3 | -15 | -1 | 12 | 3 | -13 | -26 | -37 | -42 | -40 | -32 | -25 | -21 | -19 | -12 | 1 |
| 26 | 22 | 22 | 30 | 40 | 43 | 33 | 21 | 6 | -10 | -25 | -38 | -45 | -47 | -52 | -67 | -75 | -71 | -63 |
| -15 | 12 | 39 | 62 | 81 | 76 | 63 | 49 | 37 | 25 | 13 | -2 | -16 | -30 | -40 | -50 | -48 | -34 | -21 |
| -35 | -37 | -26 | -13 | -2 | 5 | 10 | 15 | 8 | -1 | -18 | -40 | -29 | -9 | 0 | 5 | 9 | 13 | 10 |
| 3 | 12 | 25 | 38 | 47 | 54 | 59 | 65 | 60 | 51 | 41 | 33 | 25 | 18 | 11 | 12 | 11 | -1 | 5 |
| 16 | 26 | 26 | 24 | 21 | 19 | 17 | 22 | 28 | 24 | 13 | 3 | -6 | -12 | -30 | -64 | -82 | -95 | -102 |
| -92 | -80 | -63 | -46 | -28 | -19 | -23 | -28 | -29 | -27 | -25 | -19 | -12 | -4 | -2 | -5 | -7 | -1 | 8 |
| 27 | 37 | 48 | 59 | 69 | 67 | 59 | 49 | 42 | 40 | 37 | 35 | 27 | 17 | 6 | -4 | -15 | -22 | -26 |
| -33 | -36 | -42 | -53 | -68 | -72 | -60 | -48 | -37 | -27 | -10 | 13 | 34 | 50 | 63 | 69 | 73 | 77 | 81 |
| 62 | 48 | 34 | 21 | 8 | -6 | -14 | -10 | 0 | 11 | 18 | 18 | 17 | 16 | 16 | 20 | 24 | 15 | 3 |
| 3 | 6 | 9 | 8 | 7 | 6 | 2 | -6 | -14 | -23 | -31 | -36 | -39 | -43 | -46 | -47 | -45 | -44 | -42 |
| -31 | -22 | -13 | -6 | -7 | -12 | -13 | -9 | -5 | 0 | 4 | 9 | 12 | 6 | -7 | -20 | -31 | -27 | -20 |
| -4 | 5 | 10 | 5 | -1 | -9 | -12 | -10 | -7 | -5 | -2 | 1 | 5 | 9 | 14 | 13 | 9 | 5 | 5 |
| 10 | 12 | 11 | 9 | 7 | 5 | 6 | 15 | 26 | 38 | 49 | 50 | 48 | 46 | 43 | 41 | 36 | 24 | 10 |
| -8 | -14 | -19 | -24 | -28 | -32 | -35 | -40 | -40 | -33 | -25 | -27 | -33 | -36 | -29 | -19 | -10 | -13 | -13 |
| -5 | 4 | 11 | 8 | 4 | -1 | -6 | -10 | -9 | -6 | -7 | -12 | -17 | -23 | -27 | -31 | -35 | -38 | -40 |
| -43 | -44 | -43 | -42 | -38 | -32 | -26 | -19 | -13 | -13 | -15 | -18 | -20 | -20 | -20 | -16 | -4 | 7 | 12 |
| 13 | 12 | 12 | 12 | 14 | 16 | 19 | 21 | 24 | 28 | 33 | 37 | 42 | 46 | 51 | 51 | 48 | 46 | 43 |
| 36 | 31 | 26 | 21 | 20 | 21 | 22 | 21 | 14 | 7 | -2 | -4 | 1 | -7 | -21 | -37 | -43 | -42 | -41 |
| -37 | -35 | -37 | -40 | -43 | -46 | -49 | -50 | -43 | -34 | -25 | -11 | -3 | -2 | 0 | 8 | 19 | 31 | 39 |
| 35 | 31 | 28 | 24 | 21 | 18 | 21 | 26 | 25 | 19 | 15 | 15 | 15 | 16 | 17 | 18 | 19 | 18 | 15 |
| 9 | 6 | 7 | 10 | 13 | 16 | 17 | 14 | 9 | 5 | 0 | -4 | -9 | -13 | -17 | -14 | -8 | -2 | 4 |
| 8 | 6 | 9 | 16 | 18 | 13 | 7 | 3 | 3 | 4 | 5 | 7 | 11 | 17 | 23 | 30 | 32 | 28 | 24 |
| 17 | 19 | 23 | 30 | 28 | 21 | 13 | 6 | 0 | -6 | -12 | -18 | -22 | -26 | -30 | -36 | -43 | -51 | -55 |
| -57 | -57 | -58 | -58 | -59 | -59 | -52 | -44 | -35 | -27 | -22 | -17 | -12 | -6 | 3 | 10 | 14 | 18 | 21 |
| 29 | 33 | 37 | 40 | 40 | 39 | 37 | 36 | 35 | 32 | 29 | 26 | 23 | 20 | 20 | 24 | 28 | 26 | 19 |
| 6 | 0 | -4 | -7 | -10 | -13 | -15 | -18 | -20 | -22 | -23 | -24 | -24 | -25 | -23 | -18 | -13 | -7 | -2 |
| 3 | 4 | 4 | 5 | 5 | 7 | 10 | 14 | 12 | 6 | 0 | -1 | 0 | 2 | 4 | 7 | 11 | 15 | 19 |
| 14 | 10 | 8 | 10 | 12 | 14 | 16 | 18 | 19 | 20 | 20 | 20 | 20 | 17 | 14 | 11 | 8 | 5 | 2 |
| 10 | 12 | 9 | 5 | 1 | -3 | -7 | -7 | -4 | -1 | 2 | 4 | 7 | 10 | 13 | 14 | 11 | 8 | 5 |
| -1 | -4 | -5 | -1 | 4 | 7 | 6 | 6 | 4 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 4 | 5 | 6 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8 | 9 | 7 | 6 | 5 | 4 | 2 | -1 | -5 | -9 | -13 | -13 | -12 | -10 | -9 | -7 | -6 | -4 | -3 | -1 |
| -1 | -3 | -7 | -10 | -13 | -16 | -18 | -21 | -23 | -26 | -26 | -25 | -23 | -21 | -20 | -19 | -18 | -17 | -17 | -16 |
| -15 | -13 | -9 | -5 | -2 | -1 | 0 | -1 | -3 | -5 | -8 | -11 | -12 | -13 | -13 | -13 | -14 | -14 | -14 | -15 |
| -15 | -16 | -17 | -17 | -18 | -19 | -19 | -19 | -18 | -18 | -17 | -17 | -15 | -11 | -7 | -2 | 2 | 4 | 7 | 10 |
| 13 | 17 | 21 | 23 | 21 | 20 | 18 | 17 | 18 | 18 | 18 | 19 | 19 | 21 | 25 | 29 | 34 | 38 | 38 | 36 |
| 35 | 33 | 31 | 29 | 26 | 23 | 20 | 17 | 15 | 16 | 17 | 19 | 21 | 22 | 21 | 18 | 15 | 12 | 9 | 6 |
| 2 | -1 | -3 | -4 | -5 | -6 | -8 | -11 | -14 | -17 | -20 | -22 | -22 | -23 | -23 | -22 | -20 | -18 | -16 | -14 |
| -12 | -12 | -12 | -11 | -9 | -6 | -4 | -1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | -1 | -7 | -13 | -16 | -16 |
| -15 | -13 | -13 | -14 | -15 | -16 | -17 | -18 | -18 | -19 | -19 | -17 | -14 | -12 | -10 | -8 | -6 | -3 | -1 | 2 |
| 3 | 2 | 1 | -1 | -2 | -3 | -1 | 2 | 2 | 0 | -3 | -5 | -2 | -9 | 4 | 1 | 1 | -8 | -12 | -14 |
| -13 | -11 | -10 | -8 | -7 | -5 | -3 | -1 | 0 | -3 | -6 | -10 | -12 | -9 | -4 | 6 | 4 | 11 | 15 | 13 |
| 7 | 7 | 13 | 21 | 26 | 25 | 25 | 23 | 22 | 20 | 18 | 15 | 13 | 10 | 8 | 6 | 4 | 2 | 0 | -3 |
| -6 | -10 | -15 | -16 | -16 | -15 | -14 | -13 | -11 | -6 | -1 | 3 | 8 | 13 | 18 | 20 | 17 | 13 | 10 | 6 |
| 3 | 4 | 8 | 11 | 15 | 18 | 22 | 17 | 8 | 0 | -6 | -10 | -14 | -17 | -15 | -9 | -4 | 2 | 6 | 9 |
| 13 | 11 | 5 | 0 | -7 | 15 | -5 | 1 | 3 | -2 | -9 | -14 | -16 | -18 | -13 | -5 | 3 | 0 | -9 | -19 |
| -22 | -21 | -19 | -20 | -22 | -25 | -28 | -30 | -27 | -21 | -16 | -11 | -13 | -19 | -25 | -25 | -21 | -16 | -10 | -5 |
| -4 | -9 | -8 | -1 | 6 | 11 | 7 | 3 | -2 | 0 | 4 | 11 | 17 | 15 | 11 | 6 | 7 | 13 | 19 | 26 |
| 32 | 27 | 25 | 28 | 28 | 21 | 14 | 7 | 5 | 6 | 9 | 11 | 13 | 15 | 14 | 12 | 11 | 9 | 8 | 8 |
| 7 | 6 | 8 | 11 | 14 | 15 | 14 | 13 | 12 | 11 | 7 | 4 | 0 | -4 | -8 | -12 | -17 | -20 | -12 | -12 |
| -7 | -1 | 5 | 9 | 6 | 1 | 2 | 4 | 8 | 7 | 3 | -1 | -5 | -9 | -9 | -8 | -7 | -6 | -5 | -4 |
| -5 | -6 | -7 | -8 | -10 | -11 | -12 | -16 | -18 | -15 | -12 | -8 | -4 | 2 | 5 | 3 | 1 | -1 | -3 | -7 |
| -12 | -17 | -22 | -26 | -28 | -25 | -22 | -19 | -15 | -10 | -6 | -3 | -1 | 0 | 1 | 2 | 3 | 1 | 0 | -2 |
| -1 | 1 | 3 | 6 | 8 | 11 | 12 | 10 | 8 | 6 | 4 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 6 |
| 5 | 5 | 5 | 5 | 5 | 3 | 1 | -1 | -3 | -5 | -3 | 1 | 5 | 8 | 13 | 15 | 14 | 12 | 11 | 10 |
| 8 | 7 | 5 | 3 | 1 | 1 | 3 | 4 | 5 | 6 | 7 | 6 | 4 | 2 | 0 | -1 | -3 | -3 | 1 | 4 |
| 9 | 10 | 9 | 7 | 5 | 4 | 2 | 0 | -1 | 0 | 2 | 4 | 4 | 4 | -3 | -7 | -7 | -5 | -2 | 0 |
| 3 | 5 | 8 | 8 | 8 | 7 | 6 | 5 | 4 | 3 | 3 | 2 | 1 | 0 | -1 | -2 | -4 | -4 | -6 | -7 |
| -8 | -10 | -11 | -13 | -14 | -15 | -15 | -14 | -13 | -12 | -11 | -11 | -10 | -9 | -9 | -10 | -12 | -14 | -14 | -13 |
| -12 | -11 | -9 | -8 | -6 | -5 | -4 | -4 | -4 | -5 | -5 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -7 |
| 8 | 8 | 7 | 6 | 5 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 11 | 10 | 9 | 8 | 7 | 6 |
| 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 11 | 10 | 10 | 9 | 8 | 8 |
| 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 4 | 2 | 1 |
| 0 | -1 | -3 | -4 | -5 | -6 | -6 | -7 | -7 | -8 | -9 | -9 | -9 | -8 | -8 | -7 | -6 | -5 | -4 | -4 |
| -4 | -3 | -2 | -2 | -1 | -1 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 0 | -1 | -3 |
| 7 | 7 | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 0 | -3 | -2 |
| -4 | -6 | -8 | -9 | -9 | -9 | -8 | -8 | -8 | -8 | -8 | -7 | -7 | -8 | -8 | -8 | -9 | -8 | -5 | -2 |
| 1 | 4 | 7 | 9 | 8 | 7 | 7 | 6 | 5 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 2 | 1 | 1 | 0 | -1 | -2 | -2 | -3 | -3 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -6 | -8 | -10 |
| -12 | -14 | -13 | -12 | -11 | -10 | -9 | -8 | -6 | -4 | -3 | -1 | 1 | 3 | 5 | 7 | 8 | 7 | 6 | 5 |
| 3 | 2 | 1 | -1 | -2 | -3 | -5 | -6 | -7 | -9 | -10 | -11 | -13 | -13 | -11 | -9 | -7 | -5 | -3 | -1 |
| 1 | 2 | 2 | 1 | 0 | 0 | -1 | -2 | -3 | -3 | -4 | -5 | -5 | -5 | -6 | -6 | -6 | -6 | -6 | -7 |
| -7 | -7 | -8 | -8 | -8 | -9 | -10 | -11 | -12 | -13 | -13 | -14 | -15 | -14 | -12 | -11 | -10 | -9 | -7 | -6 |
| -5 | -3 | -2 | -2 | -2 | -1 | -1 | -1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -10 | -10 | -9 | -9 | -8 | -7 | -7 | -6 | -6 | -5 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -5 | -5 | -5 |
| -5 | -5 | -5 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -5 | -4 | -4 | -4 | -5 | -5 | -5 |
| 8 | 10 | 12 | 14 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| 0 | 0 | -1 | -1 | -1 | -1 | -1 | -2 | -2 | -2 | -2 | -3 | -2 | -2 | -3 | -3 | -3 | -3 | -3 | -2 |
| -2 | -1 | -1 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 |
| 8 | 9 | 9 | 10 | 10 | 10 | 9 | 8 | 8 | 7 | 7 | 6 | 5 | 5 | 4 | 3 | 3 | 2 | 2 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|----|---|----|----|----|----|----|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|
| 0 | -2 | 1 | -2 | 0 | 0 | 0 | 2 | 0 | -1 | -2 | -4 | 1 | -1 | -1 | 0 | -1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 1 | 3 | 0 | -2 | -1 | 0 | -2 | 1 | 1 | 0 | 2 | 0 | -2 | -1 | -3 | -2 | -1 | 0 | 1 | -1 |
| 0 | -2 | 1 | -2 | 0 | -1 | 0 | 2 | 0 | -1 | -2 | -4 | 1 | -1 | -1 | 0 | -1 | 0 | 1 | 1 | 0 | -1 | -1 | 2 | 0 | 2 | 1 | 3 | 1 | -2 | -1 | -1 | 0 | 1 | 1 | 0 | 2 | 0 | -2 | -1 | -2 | -1 | 0 | 1 | 1 | 0 | |
| 0 | -3 | -2 | -1 | 0 | -1 | 1 | 2 | 0 | -1 | -2 | -3 | -3 | -1 | -1 | -1 | 0 | 1 | 1 | 0 | -1 | -1 | 1 | 0 | 2 | 1 | 3 | 2 | -2 | -1 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | -2 | 0 | -2 | -1 | 0 | 0 | 1 | 1 | | |
| 0 | -2 | 2 | 0 | 0 | -2 | 1 | 2 | 0 | -1 | -2 | -3 | 0 | -4 | -1 | -1 | 0 | 1 | 1 | 0 | -1 | -1 | 1 | 0 | 2 | 1 | 2 | 2 | -1 | -2 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | -2 | -1 | -2 | 0 | 1 | 1 | 1 | | |
| 0 | -2 | 2 | 0 | 0 | -2 | 2 | 1 | 0 | -1 | -2 | -2 | 0 | -5 | -1 | -1 | 0 | 1 | 1 | 1 | -1 | -1 | 1 | 0 | 2 | 0 | 2 | 2 | 0 | -2 | -1 | 0 | 1 | 1 | 0 | 0 | 0 | -2 | -1 | -1 | 0 | 2 | 1 | 1 | | | |
| 0 | -2 | 2 | 1 | 1 | 0 | -2 | 2 | 1 | 0 | -1 | -2 | -2 | -4 | -1 | -1 | 0 | 1 | 1 | 1 | -1 | -1 | 1 | 1 | 2 | 0 | 1 | 2 | 0 | -2 | -3 | -2 | -1 | 1 | 0 | 0 | 0 | -2 | -1 | -1 | -2 | -1 | 1 | 0 | | | |
| 1 | -1 | 2 | 1 | 1 | 0 | -2 | 2 | 1 | 0 | -1 | -2 | -2 | -1 | -2 | -1 | 0 | 1 | 1 | 1 | -1 | -1 | 1 | 1 | 2 | 0 | 1 | 2 | 0 | -2 | -3 | -2 | -1 | 0 | 0 | -1 | -1 | -2 | -1 | -3 | -2 | 0 | 0 | -1 | | | |
| 1 | -1 | 2 | 1 | 1 | 0 | -2 | 2 | 2 | 1 | -1 | -2 | -2 | -1 | -1 | 0 | 0 | 1 | 1 | 1 | -1 | -1 | 1 | 1 | 2 | 0 | 1 | 2 | 0 | -2 | -3 | -2 | 0 | -1 | -1 | -1 | -2 | -1 | -3 | -2 | -1 | 0 | -2 | | | | |
| 1 | 0 | 1 | 1 | -1 | -2 | 2 | 2 | 1 | -1 | 0 | -3 | -2 | -1 | -1 | 1 | -1 | 0 | 0 | 2 | 1 | -1 | 0 | 2 | 2 | 0 | 1 | 2 | 0 | -2 | -2 | -1 | 2 | 0 | -1 | -1 | -1 | -1 | -3 | -1 | -2 | -1 | 0 | -2 | | | |
| 1 | 0 | 0 | 1 | -2 | -2 | 1 | 2 | 2 | -1 | 0 | -4 | -2 | -1 | -1 | 2 | -1 | 0 | 0 | 3 | 1 | -1 | 0 | 2 | 2 | 0 | 1 | 2 | 0 | -2 | -1 | -2 | -2 | -1 | -1 | -1 | -1 | -3 | -1 | -2 | -1 | 0 | -2 | | | | |
| 1 | 0 | -1 | -2 | -2 | 1 | 1 | 1 | 2 | 1 | 1 | -4 | -2 | -1 | -2 | 2 | -1 | 0 | 0 | 3 | 1 | 1 | 0 | 1 | 2 | 2 | 0 | 1 | 2 | 0 | -2 | 0 | -2 | -2 | -1 | 0 | -1 | -1 | 0 | 1 | 0 | -2 | | | | | |
| 1 | 0 | -1 | -2 | -2 | 1 | 1 | 1 | 2 | 1 | 1 | -4 | -2 | -1 | -3 | 2 | -1 | 0 | 1 | 3 | 1 | 1 | 0 | 2 | 2 | 0 | 1 | 2 | 1 | -2 | -1 | -1 | -2 | -1 | 1 | -1 | -1 | 0 | 1 | 0 | -2 | | | | | | |
| 1 | 0 | -1 | -2 | -2 | 1 | 0 | 2 | 0 | -2 | -4 | -2 | -1 | -2 | 2 | -1 | 0 | 2 | 3 | 1 | 1 | 0 | 2 | 2 | 0 | 1 | 2 | 1 | -2 | -1 | -1 | -2 | -1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | -2 | | | | | |
| 1 | 0 | -2 | -3 | -2 | -2 | 1 | 0 | 2 | 1 | 1 | -3 | -2 | -1 | -2 | 2 | -1 | 0 | 2 | 2 | 1 | 1 | 0 | 2 | 2 | 0 | 1 | 2 | 1 | -1 | -1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | -2 | | | | | |
| 1 | 0 | -2 | -3 | -2 | -2 | 1 | 0 | 2 | 1 | 1 | 0 | -3 | 2 | -1 | -1 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 2 | 1 | 0 | 1 | 2 | 1 | -1 | -1 | 0 | -1 | 1 | 1 | 0 | 1 | 1 | -1 | 0 | 1 | -1 | | | | | |
| 1 | 0 | -3 | -2 | -2 | 1 | 0 | 2 | 1 | 1 | -2 | -2 | -3 | 1 | 0 | 0 | 1 | 1 | -1 | 1 | 1 | 0 | 2 | 1 | 1 | 2 | 2 | 2 | 0 | -1 | -1 | 0 | -1 | 1 | 1 | 0 | 3 | 0 | -1 | -2 | 0 | 1 | 0 | | | | |
| 0 | 0 | -2 | 1 | -2 | -2 | 1 | 1 | 2 | 1 | 1 | -2 | -2 | -3 | 1 | 1 | 0 | 1 | -1 | 1 | 1 | 1 | 0 | 2 | 0 | 1 | 2 | 2 | 0 | -2 | -1 | 0 | -1 | 1 | 1 | -1 | -1 | -2 | -1 | 0 | 0 | 2 | 1 | 0 | | | |
| 0 | 0 | -2 | 1 | -2 | -2 | 1 | 1 | 2 | 0 | 1 | -2 | -2 | -1 | -2 | 1 | 2 | 0 | 0 | -1 | 1 | 1 | 0 | 3 | 0 | 2 | 2 | 2 | -1 | -2 | -1 | 0 | -1 | -1 | 1 | 1 | -2 | -1 | -1 | -3 | 0 | -1 | 1 | 2 | 0 | | |
| 0 | 0 | -1 | 1 | -2 | -1 | 1 | 2 | 2 | 0 | 1 | -3 | 0 | -1 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | -1 | 3 | 0 | 2 | 1 | 2 | -1 | -2 | -1 | 0 | -1 | 3 | 0 | 1 | -1 | -2 | -1 | -4 | -1 | 0 | 2 | 0 | | | | |
| -1 | 0 | -1 | 1 | -2 | -1 | 1 | 1 | 2 | 0 | 0 | -3 | 1 | -1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | -1 | 3 | 0 | 2 | 1 | 2 | -1 | -2 | -1 | 0 | -1 | 2 | 1 | 0 | 1 | 0 | -2 | -1 | -4 | -1 | 0 | 2 | 0 | | | |

| | | | | |
|----------------|---------------------------|---------------------------|----------------------------|--------------------------|
| 1 1 0 2 0 0 | -1 1 -2 -1 -1 -1 0 0 2 | -2 -1 1 0 2 1 0 -1 1 1 | 0 1 3 -1 2 1 0 2 2 -1 -1 | 1 0 -2 -1 0 -2 0 0 0 |
| 1 1 -1 2 0 0 | -1 1 -1 -1 -1 -1 0 -1 2 | -2 -1 1 0 1 1 0 -1 1 1 | 0 0 2 -1 2 -1 2 2 -1 -1 | 1 0 -1 -1 -1 -2 0 0 0 |
| 1 1 -1 -1 1 0 | -1 1 0 0 -1 -1 -1 0 -2 2 | -2 -1 2 0 0 1 1 -1 1 1 | -1 -1 -1 -1 -2 1 1 -1 0 | 1 0 0 -1 -1 -2 0 0 0 |
| 0 1 -1 -1 2 0 | -1 1 0 0 -1 -1 -1 0 -1 2 | -2 -2 2 0 0 1 2 0 1 1 | -2 -1 -1 -1 0 -3 -1 0 -1 0 | 1 0 1 -1 -1 -2 0 1 0 |
| -1 1 0 0 -3 0 | -1 1 0 0 -1 -1 -1 0 -1 2 | -2 -2 1 1 0 1 2 1 1 0 | -1 -1 1 0 -1 -3 2 0 -1 0 | 1 0 1 -1 0 -2 0 1 1 |
| -2 1 0 0 -3 0 | -1 1 1 0 1 -1 -1 0 0 2 | -2 -2 0 1 0 0 2 1 1 -1 | 0 -1 1 1 -1 -2 2 0 -1 1 | 0 0 1 -1 0 -3 1 1 3 |
| -2 1 0 0 -3 -1 | -1 1 1 0 1 -1 -1 0 0 1 | -1 -1 -1 2 0 -1 2 1 1 -2 | 0 -1 1 1 -1 -2 0 -1 2 | 0 1 0 -2 -1 -2 1 1 3 |
| -2 1 0 0 -3 -1 | -1 1 1 0 0 -1 -1 0 0 1 | 0 0 -1 3 1 0 2 0 0 -2 | -1 -1 0 1 1 0 -2 0 -1 2 | 1 2 -1 -3 -1 -1 0 2 |
| -3 1 0 0 -2 -1 | -1 2 1 -1 -1 -1 0 -1 0 | -1 0 -1 3 2 1 2 0 0 -2 | -1 -1 0 1 0 1 -1 0 -1 2 | 1 2 -1 -4 -2 0 1 0 1 |
| -4 1 0 0 -2 0 | -1 3 1 -2 -1 -1 -1 0 -1 0 | -2 1 -1 3 3 1 0 0 0 -2 | -1 -1 0 1 0 1 0 0 0 2 | 1 2 -2 -4 -2 0 0 1 0 |
| -3 1 0 0 -1 0 | -1 3 1 -3 -1 -1 -1 0 -2 0 | 0 2 -1 3 3 1 0 0 1 -1 | 0 -1 0 1 1 1 0 0 1 2 | 1 2 -2 -3 -3 -1 -1 1 0 |
| -2 1 0 0 -1 0 | 0 2 1 -4 -1 -1 -1 -2 1 | 2 3 -1 2 2 0 -1 0 1 -1 | 0 -1 0 1 2 0 0 0 1 2 | 0 2 -2 -3 -3 -1 -1 1 0 |
| -2 1 0 0 0 0 | 0 1 1 -4 -1 -1 -1 -2 1 | 1 3 -1 2 0 0 -1 0 0 -1 | -1 -1 0 1 2 1 0 0 1 2 | 0 2 -1 -2 -3 -1 -1 1 1 |
| -2 1 0 0 0 0 | 0 0 1 -5 1 -1 -1 -1 -2 1 | 0 1 -1 -1 -1 0 -1 0 -1 -1 | -1 -1 0 1 2 1 0 0 1 1 | -1 2 -1 -2 -3 0 0 1 2 |
| -2 1 0 0 -1 0 | 0 -1 1 -5 1 -1 -1 -1 -2 1 | 0 0 -1 -1 -1 0 -1 0 -1 0 | -2 -1 0 1 2 1 0 -1 2 1 | -2 2 0 -2 -3 1 1 0 2 |
| -2 1 0 0 -1 0 | 0 -1 1 -4 1 -1 -1 -1 1 | -1 -1 -1 1 0 1 -1 0 -1 0 | -2 -1 0 1 2 0 0 -2 2 1 | -2 1 0 -2 -3 1 0 0 2 |
| -1 1 0 0 -1 0 | -1 -1 -1 -3 0 -1 -1 -1 1 | -1 -1 -1 2 0 0 1 1 -1 1 | -2 -1 0 1 2 0 0 -2 2 1 | -2 0 0 -2 -3 0 -2 0 2 -2 |
| 0 1 0 0 -1 0 | -1 -1 -1 -2 -1 -1 -1 0 1 | -1 2 -1 2 0 2 1 1 -1 1 | -1 -1 0 1 1 0 0 -2 1 1 | -2 0 0 -2 -3 0 -3 0 2 -1 |
| 1 1 0 0 0 0 | -1 -1 -2 -1 -1 -1 0 1 | -1 2 -1 2 0 3 1 2 -1 1 | 0 -2 1 1 0 0 0 -2 1 0 | -2 1 0 -2 -2 0 -2 0 2 0 |
| 1 1 1 0 1 0 | 0 -1 1 -2 -1 -1 -1 0 1 | 0 -1 1 0 3 1 1 -1 1 | 1 -1 2 2 -1 1 1 -2 1 -1 | -1 1 0 -2 -2 1 -2 0 1 0 |

| | | | | |
|---------------------------------|--|--|---|--|
| 0 -1 -2 -2 -2 -2 | -2 -2 -4 1 -1 3 1 0 -1 0 | 1 3 1 2 1 -1 0 0 1 -1 | 1 -1 -1 -1 0 -1 1 0 -1 2 | 0 0 0 -1 -1 1 1 1 |
| 0 -1 -2 -2 -2 -2 | -2 -2 -4 0 0 3 1 0 0 0 | 1 3 1 2 2 -2 1 0 1 1 | 0 -1 -1 -1 0 -1 0 0 -1 1 | 0 1 0 -1 -1 0 0 1 1 |
| 0 0 -2 -2 -2 -2 | -2 -2 -4 0 0 3 1 0 0 0 | 1 4 0 1 3 -2 2 0 1 1 | 0 -1 -1 -2 0 0 -1 -1 0 1 | 0 1 1 -0 -1 0 0 1 0 |
| 0 0 -2 -2 -2 -2 | -2 -2 -4 -1 0 3 2 0 1 0 | 1 4 1 1 3 -2 2 0 1 1 | -1 -1 -1 -2 0 1 -3 -1 0 1 | 0 1 1 -1 -1 -1 -1 1 0 |
| 0 1 -2 -2 -2 -2 | -2 -2 -4 -1 0 3 2 0 1 0 | 1 4 2 0 3 -2 2 0 1 0 | -1 -1 -1 -2 -1 1 -3 -1 0 1 | 0 1 1 -2 -1 -1 -1 1 1 |
| 0 1 -2 -2 -2 -2 | -2 -2 -4 -1 0 3 2 0 1 0 | 1 4 2 0 3 -1 2 0 0 -1 | 0 -1 0 -2 -2 1 -4 -1 0 1 | 0 1 1 -2 -2 -1 0 -1 1 0 |
| 0 1 -1 -2 -2 -2 | -2 -2 -4 -1 -1 3 1 1 1 0 | 1 4 2 0 2 0 2 0 0 -1 | 2 -1 1 -2 -2 1 -3 -1 0 1 | 1 1 1 -2 -1 -1 -1 0 0 |
| 0 1 -1 -2 -2 -2 | -2 -2 -3 -1 -1 2 1 1 0 1 0 | 1 4 1 1 0 1 1 2 0 0 1 | 2 -1 1 -1 -2 0 -1 -1 0 1 | 2 1 1 -1 -1 -2 -1 -1 0 |
| 0 2 -1 -2 -2 -2 | -2 -2 -2 0 -1 1 1 0 1 0 | 1 3 1 1 0 1 1 2 0 1 1 | 2 -1 0 -1 -1 -1 0 0 1 | 2 1 1 -0 -1 -2 -1 -1 1 |
| 0 2 -1 -2 -2 -2 | -2 -2 -2 0 -1 1 1 0 1 0 | 1 3 1 1 2 0 0 2 0 1 0 | 1 -1 -1 0 0 -1 1 1 0 1 | 2 1 1 -0 -1 -1 -1 -2 1 |
| 0 2 -1 -2 -2 -2 | -2 -2 -2 1 -1 0 1 1 -1 0 0 | 1 2 1 1 2 0 0 1 0 1 0 | 0 -1 -1 -1 -1 -2 -1 2 0 1 | 2 2 -1 0 -1 0 0 -1 0 |
| 0 2 -1 -2 -2 -2 | -2 -2 -2 1 -1 0 1 1 -1 0 0 | 1 2 2 2 0 0 0 0 1 1 | 0 -2 -1 0 -2 -2 -1 1 0 1 | 2 2 0 0 0 -1 1 0 -1 |
| 0 1 -1 -2 -2 -2 | -2 -2 -2 1 -1 0 1 1 -1 0 | 0 2 2 2 0 0 0 0 1 2 | -1 -3 -1 0 -3 -2 -1 0 0 1 | 1 3 0 0 0 -1 1 0 -1 |
| 0 0 -1 -2 -2 -2 | -2 -2 -2 1 -1 0 1 1 -1 0 | 0 2 2 2 0 0 -1 0 1 2 | -1 -4 -1 0 -3 -2 -1 1 1 1 | 0 3 1 0 1 -1 1 0 -1 |
| 0 -1 -1 -2 -2 -2 | -2 -2 -2 1 -1 1 1 0 -2 0 | 0 1 2 1 1 0 0 -1 0 1 2 | -1 -3 -1 -1 -2 -2 0 -1 1 1 | -1 1 1 1 0 -1 0 0 1 |
| 0 -1 -1 -2 -2 -2 | -2 -2 -2 1 -1 1 1 0 -2 0 | 0 1 2 0 0 0 -1 0 1 2 | -1 -2 -1 -1 -2 -2 1 1 -2 1 | -1 0 0 1 1 -1 -1 0 1 |
| 0 -1 -1 -2 -2 -2 | -2 -2 -2 0 -1 -2 1 1 -2 -1 | 0 1 2 1 1 0 -1 0 1 2 | -1 -1 -1 -1 -2 -2 1 1 2 1 | -1 -1 -1 2 0 -1 -2 0 1 |
| -1 0 -1 -2 -2 -2 | -2 -2 -2 -1 -1 -2 1 1 -1 -1 | 0 1 2 1 2 0 -1 0 1 2 | -1 0 -1 -1 -1 -1 0 0 1 1 | 0 -1 -1 2 1 1 -2 1 1 |
| -1 0 -1 -2 -2 -2 | -2 -2 -2 -1 -2 2 1 1 -1 -1 | 0 1 2 2 2 0 -1 0 1 2 | -1 0 -1 -1 -1 -1 1 1 0 | 1 0 -1 2 1 1 -2 2 -1 |
| -1 0 -1 -2 -2 -2 | -2 -2 -3 0 -1 2 1 1 -1 -1 | 0 1 2 2 2 1 -1 0 1 2 | -1 1 -1 -1 -1 0 -2 0 -1 | 2 0 -1 1 0 -1 1 1 0 |

IIIV321 57.011.0 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
STATION NO. 0000 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL.
INSTR PERIOD = 0.045 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.
EPICENTER - 37 40 00N, 122 29 00W
COMP N26E 37 48 00N, 122 16 00W

```

ACLN = -88.2 CM/SEC/SEC AT 0.84 SEC      VELO = 10.7 CM/SEC AT 9.10 SEC      DISP = 4.3 CM AT 11.84 SEC
PEAK VALS

```

```
INITIAL VELO = -0.17973 CM/SEC      INITIAL DISP = 0.72859 CM
```

4225 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93 | 268 | 250 | 76 | -137 | -274 | -360 | -336 | -212 | -23 | 64 | 111 | 85 | 50 | -34 | -106 | -65 | 53 | 173 | 297 |
| 348 | 320 | 246 | 171 | 146 | 95 | 34 | -7 | -54 | -122 | -181 | -226 | -200 | -111 | 117 | 477 | 826 | 805 | 580 | 180 |
| -355 | -746 | -882 | -796 | -618 | -230 | 72 | 165 | 109 | 28 | -144 | -296 | -333 | -297 | -177 | -42 | 6 | 33 | 19 | -8 |
| -36 | -69 | -111 | -145 | -149 | -111 | -3 | 85 | 219 | 373 | 429 | 378 | 296 | 192 | 71 | -36 | -83 | -120 | -136 | -139 |
| -121 | -108 | -115 | -132 | -139 | -122 | -35 | 92 | 223 | 363 | 464 | 485 | 381 | 201 | -97 | -360 | -431 | -426 | -342 | -177 |
| 41 | 282 | 313 | 303 | 260 | 164 | -44 | -253 | -404 | -404 | -334 | -221 | -90 | 12 | 23 | -56 | -148 | -214 | -182 | -51 |
| 128 | 286 | 382 | 390 | 342 | 248 | 115 | -49 | -157 | -173 | -128 | -9 | 119 | 170 | 179 | 139 | 82 | -19 | -110 | -99 |
| -38 | 64 | 187 | 301 | 342 | 297 | 187 | 24 | -70 | -82 | -34 | 76 | 167 | 175 | 121 | 39 | -94 | -212 | -258 | -270 |
| -246 | -202 | -162 | -143 | -142 | -164 | -202 | -254 | -320 | -384 | -402 | -356 | -252 | -130 | -32 | 47 | 114 | 118 | 83 | 54 |
| 19 | -5 | 4 | 16 | 33 | 47 | 46 | 34 | 40 | 55 | 75 | 95 | 113 | 110 | 89 | 74 | 66 | 81 | 131 | 197 |
| 255 | 273 | 267 | 254 | 225 | 216 | 224 | 240 | 248 | 229 | 187 | 132 | 63 | -12 | -87 | -152 | -209 | -242 | -259 | -253 |
| -229 | -218 | -256 | -315 | -341 | -343 | -304 | -254 | -205 | -164 | -131 | -110 | -102 | -108 | -119 | -107 | -65 | -14 | -1 | -7 |
| -20 | -38 | -54 | -63 | -46 | -1 | 57 | 113 | 154 | 166 | 154 | 148 | 171 | 218 | 279 | 342 | 398 | 439 | 466 | 463 |
| 423 | 368 | 285 | 200 | 174 | 187 | 219 | 259 | 278 | 253 | 178 | 65 | -60 | -125 | -138 | -145 | -147 | -146 | -163 | -182 |
| -169 | -167 | -170 | -186 | -209 | -241 | -278 | -311 | -340 | -364 | -385 | -401 | -409 | -394 | -348 | -291 | -252 | -221 | -200 | -185 |
| -170 | -143 | -88 | -8 | -209 | 55 | 105 | 164 | 224 | 282 | 312 | 307 | 298 | 290 | 305 | 336 | 387 | 430 | 462 | 472 |
| 421 | 457 | 421 | 382 | 289 | 242 | 195 | 149 | 104 | 69 | 42 | 20 | 8 | 0 | -2 | -12 | -35 | -62 | -99 | -149 |
| -209 | -272 | -338 | -389 | -403 | -412 | -418 | -423 | -440 | -470 | -512 | -540 | -509 | -445 | -386 | -330 | -278 | -263 | -255 | -221 |
| -142 | -68 | -3 | 59 | 102 | 102 | 99 | 97 | 139 | 203 | 260 | 319 | 377 | 438 | 500 | 533 | 531 | 494 | 438 | 379 |
| 309 | 279 | 298 | 327 | 364 | 392 | 402 | 400 | 371 | 332 | 299 | 266 | 236 | 188 | 107 | 25 | -47 | -110 | -161 | -194 |
| -235 | -292 | -357 | -415 | -467 | -505 | -513 | -498 | -466 | -437 | -417 | -418 | -442 | -457 | -459 | -455 | -435 | -388 | -329 | -262 |
| -192 | -132 | -85 | -38 | 8 | 47 | 82 | 115 | 140 | 163 | 189 | 220 | 252 | 295 | 346 | 390 | 426 | 462 | 493 | 503 |
| 498 | 498 | 499 | 501 | 505 | 508 | 495 | 450 | 374 | 301 | 220 | 137 | 62 | 27 | 17 | 3 | -11 | -36 | -189 | -185 |
| -267 | -338 | -383 | -402 | -410 | -415 | -420 | -439 | -477 | -517 | -550 | -566 | -564 | -540 | -480 | -407 | -335 | -290 | -279 | -273 |
| -270 | -237 | -180 | -125 | -68 | -10 | 43 | 87 | 130 | 175 | 228 | 284 | 336 | 376 | 411 | 444 | 472 | 501 | 524 | 540 |
| 547 | 533 | 507 | 479 | 448 | 433 | 410 | 373 | 307 | 274 | 233 | 179 | 127 | 86 | 52 | 15 | -30 | | | |

| | | | | | | | | | | | | | | | | | | |
|-----|------|------|------|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|------|------|------|------|
| 2 | -1 | -6 | -14 | -24 | -37 | -49 | -58 | -64 | -65 | -66 | -68 | -70 | -71 | -68 | -56 | -39 | -29 | -28 |
| -28 | -25 | -22 | -12 | 0 | 6 | 0 | -7 | -2 | 10 | 30 | 42 | 61 | 70 | 54 | 39 | 26 | 17 | 19 |
| 28 | 40 | 57 | 72 | 87 | 98 | 98 | 83 | 78 | 76 | 75 | 76 | 81 | 84 | 72 | 49 | 12 | -25 | -44 |
| -62 | -72 | -73 | -56 | -47 | -49 | -66 | -93 | -120 | -134 | -107 | -89 | -71 | -49 | -24 | -5 | 2 | 6 | 6 |
| 3 | 1 | -2 | -4 | 0 | 6 | 13 | 21 | 29 | 36 | 42 | 52 | 53 | 55 | 58 | 63 | 69 | 74 | 80 |
| 85 | 84 | 79 | 78 | 84 | 90 | 80 | 63 | 44 | 25 | 28 | 27 | 10 | -14 | -40 | -69 | -82 | -87 | -89 |
| -84 | -80 | -77 | -75 | -72 | -69 | -66 | -63 | -60 | -56 | -49 | -45 | -39 | -34 | -31 | -32 | -33 | -35 | -33 |
| -28 | -23 | -16 | -1 | 20 | 39 | 54 | 66 | 77 | 84 | 103 | 115 | 121 | 123 | 124 | 122 | 119 | 114 | 104 |
| 93 | 81 | 63 | 45 | 27 | 8 | -2 | 8 | 16 | 11 | -20 | -34 | -48 | -62 | -74 | -85 | -89 | -92 | -96 |
| -96 | -93 | -91 | -89 | -87 | -84 | -80 | -76 | -72 | -72 | -74 | -66 | -66 | -59 | -46 | -30 | -18 | -21 | -31 |
| -35 | -29 | -18 | 0 | 22 | 34 | 44 | 63 | 83 | 91 | 99 | 105 | 108 | 111 | 116 | 121 | 117 | 106 | 95 |
| 80 | 59 | 36 | 14 | 4 | 15 | 24 | 34 | 42 | 48 | 39 | 32 | 19 | 5 | -13 | -34 | -50 | -65 | -72 |
| -74 | -72 | -67 | -62 | -56 | -48 | -42 | -39 | -39 | -38 | -19 | -13 | -10 | -7 | -4 | -1 | 1 | 4 | 10 |
| 18 | 25 | 27 | 25 | 24 | 29 | 38 | 44 | 49 | 51 | 47 | 39 | 37 | 39 | 41 | 43 | 44 | 46 | 48 |
| 49 | 49 | 49 | 49 | 47 | 43 | 38 | 31 | 21 | 12 | -1 | -6 | -12 | -18 | -24 | -30 | -37 | -44 | -51 |
| -49 | -44 | -39 | -32 | -24 | -17 | -16 | -20 | -24 | -27 | -30 | -29 | -24 | -18 | -11 | -1 | 10 | 17 | 15 |
| 11 | 8 | 4 | 2 | -1 | -3 | -1 | 6 | 12 | 14 | 15 | 15 | 14 | 13 | 12 | 10 | 8 | 5 | 1 |
| -3 | -6 | -10 | -14 | -16 | -18 | -20 | -22 | -24 | -26 | -27 | -27 | -27 | -28 | -30 | -32 | -34 | -36 | -37 |
| -38 | -38 | -38 | -36 | -33 | -28 | -15 | -3 | 2 | 3 | 5 | 6 | 6 | 8 | 11 | 12 | 12 | 12 | 12 |
| 12 | 12 | 10 | 8 | 7 | 10 | 14 | 18 | 18 | 17 | 8 | 3 | -4 | -10 | -18 | -25 | -31 | -35 | -37 |
| -36 | -37 | -41 | -47 | -53 | -62 | -71 | -77 | -80 | -84 | -72 | -67 | -67 | -67 | -61 | -49 | -38 | -28 | -22 |
| -17 | -11 | -4 | 4 | 12 | 19 | 27 | 34 | 38 | 35 | 33 | 33 | 36 | 45 | 58 | 70 | 83 | 95 | 103 |
| 105 | 106 | 98 | 83 | 65 | 44 | 29 | 20 | 12 | 9 | -1 | -15 | -27 | -27 | -39 | -50 | -61 | -73 | -86 |
| -97 | -102 | -101 | -101 | -95 | -86 | -79 | -72 | -67 | -61 | -56 | -54 | -53 | -53 | -55 | -57 | -56 | -52 | -49 |
| -44 | -28 | -7 | 13 | 30 | 44 | 59 | 72 | 79 | 84 | 88 | 81 | 75 | 68 | 59 | 51 | 37 | 18 | 6 |
| 18 | 42 | 66 | 94 | 103 | 83 | 58 | 24 | -10 | -40 | -16 | -2 | -17 | -50 | -97 | -145 | -164 | -152 | -116 |
| -73 | -30 | 9 | 21 | 7 | -19 | -60 | -115 | -139 | -136 | -104 | -88 | -69 | -58 | -64 | -74 | -74 | -64 | -53 |
| -27 | 10 | 38 | 60 | 57 | 8 | -34 | -55 | -53 | -21 | 15 | 70 | 103 | 117 | 103 | 89 | 69 | 46 | 8 |
| -8 | 13 | 33 | 56 | 80 | 91 | 79 | 47 | 24 | 27 | 51 | 63 | 70 | 75 | 73 | 62 | 50 | 38 | 24 |
| 3 | -25 | -30 | -23 | -27 | -48 | -71 | -87 | -92 | -68 | -31 | -16 | -6 | -14 | -27 | -36 | -44 | -52 | -59 |
| -64 | -67 | -64 | -52 | -40 | -29 | -17 | -4 | 12 | 31 | 70 | 70 | 43 | 23 | 11 | 20 | 36 | 47 | 58 |
| 69 | 78 | 85 | 86 | 86 | 85 | 82 | 78 | 71 | 60 | 45 | 48 | 43 | 31 | 20 | 14 | 11 | 7 | 6 |
| 6 | 4 | -3 | -11 | -13 | -12 | -12 | -12 | -12 | -12 | -13 | -14 | -17 | -23 | -38 | -51 | -57 | -61 | -62 |
| -62 | -60 | -57 | -51 | -38 | -21 | 2 | 30 | 48 | 54 | 4 | -4 | 4 | 12 | 24 | 36 | 48 | 60 | 69 |
| 75 | 82 | 83 | 74 | 57 | 34 | 18 | 10 | 9 | 16 | 20 | 14 | 13 | 18 | 21 | 16 | 10 | 7 | 2 |
| -19 | -37 | -31 | -25 | -19 | -18 | -28 | -36 | -40 | -44 | -46 | -44 | -34 | -20 | -3 | 12 | 14 | 6 | -9 |
| -25 | -24 | -18 | -8 | 2 | 8 | 13 | 15 | 15 | 20 | 31 | 35 | 38 | 39 | 39 | 37 | 33 | 29 | 29 |
| 35 | 40 | 45 | 47 | 49 | 50 | 51 | 50 | 49 | 42 | 26 | 16 | 7 | -1 | -9 | -17 | -22 | -26 | -30 |
| -33 | -35 | -37 | -38 | -38 | -38 | -38 | -38 | -32 | -16 | -1 | -14 | -20 | -20 | -20 | -19 | -12 | -5 | 2 |
| 15 | 33 | 47 | 48 | 39 | 34 | 32 | 31 | 29 | 27 | 24 | 11 | -2 | -6 | 2 | 12 | 26 | 43 | 60 |
| 78 | 85 | 58 | 29 | 19 | 11 | 7 | 2 | -7 | -16 | -26 | -27 | -31 | -37 | -43 | -47 | -48 | -47 | -44 |
| -37 | -30 | -24 | -25 | -28 | -29 | -30 | -30 | -28 | -23 | -19 | -20 | -22 | -23 | -23 | -23 | -19 | -16 | -9 |
| -2 | 5 | 13 | 23 | 36 | 47 | 57 | 61 | 65 | 68 | 72 | 74 | 73 | 70 | 68 | 61 | 49 | 40 | 32 |
| 26 | 26 | 30 | 29 | 27 | 24 | 24 | 24 | 24 | 24 | 6 | -10 | -21 | -30 | -32 | -32 | -31 | -26 | -22 |
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| 10 | 5 | 1 | -3 | -6 | -6 | 4 | 19 | 29 | 33 | 38 | 35 | 34 | 38 | 43 | 47 | 49 | 50 | 48 |
| 44 | 38 | 31 | 25 | 22 | 19 | 14 | 10 | 4 | -4 | -11 | -18 | -35 | -44 | -55 | -64 | -69 | -73 | -74 |
| -74 | -72 | -69 | -66 | -62 | -56 | -50 | -43 | -37 | -33 | -26 | -26 | -29 | -31 | -31 | -30 | -26 | -18 | -11 |
| -5 | 0 | 5 | 10 | 13 | 12 | 13 | 15 | 19 | 23 | 36 | 42 | 43 | 42 | 42 | 40 | 38 | 37 | 36 |
| 36 | 36 | 36 | 36 | 36 | 32 | 22 | 13 | 5 | 2 | -5 | -14 | -24 | -32 | -39 | -44 | -49 | -51 | -51 |
| -51 | -49 | -47 | -47 | -51 | -57 | -62 | -66 | -63 | -48 | -30 | -29 | -26 | -25 | -25 | -25 | -22 | -13 | -3 |
| 5 | 11 | 15 | 18 | 18 | 15 | 13 | 11 | 9 | 7 | 4 | 3 | 3 | 5 | 6 | 7 | 5 | 1 | -2 |
| -3 | -1 | 1 | 3 | 2 | 1 | -1 | -2 | -5 | -8 | -11 | -12 | -8 | -9 | -27 | -44 | -55 | -58 | -63 |
| -67 | -68 | -65 | -63 | -60 | -53 | -45 | -38 | -31 | -24 | -11 | -9 | -4 | -6 | -3 | 0 | 3 | 6 | 10 |
| 14 | 18 | 22 | 27 | 31 | 37 | 42 | 46 | 48 | 50 | 53 | 54 | 54 | 54 | 54 | 55 | 55 | 54 | 45 |

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 34 | 26 | 23 | 21 | 19 | 12 | 3 | -6 | -15 | -24 | -34 | -46 | -58 | -66 | -65 | -67 | -72 | -75 | -75 |
| -72 | -69 | -65 | -60 | -55 | -51 | -49 | -47 | -45 | -43 | -40 | -36 | -33 | -30 | -26 | -20 | -16 | -12 | -7 |
| 12 | 3 | 8 | 12 | 16 | 17 | 19 | 20 | 23 | 30 | 40 | 49 | 54 | 54 | 54 | 50 | 36 | 20 | 9 |
| -2 | 20 | 23 | 20 | 17 | 13 | 9 | 4 | -1 | -5 | -5 | -5 | -7 | -10 | -12 | -16 | -17 | -17 | -21 |
| -26 | -28 | -28 | -28 | -27 | -26 | -21 | -16 | -12 | -9 | -5 | -1 | 3 | 8 | 12 | 19 | 23 | 29 | 37 |
| 45 | 51 | 54 | 58 | 60 | 59 | 56 | 54 | 51 | 49 | 49 | 49 | 49 | 48 | 46 | 40 | 37 | 35 | 32 |
| 30 | 27 | 22 | 14 | 6 | 3 | 7 | 11 | 13 | 13 | 14 | 13 | 12 | 10 | 8 | 5 | 4 | 2 | 0 |
| -3 | -7 | -9 | -7 | -2 | 2 | 7 | 13 | 18 | 27 | 39 | 51 | 59 | 64 | 67 | 50 | 42 | 35 | 28 |
| 26 | 27 | 27 | 27 | 27 | 25 | 22 | 21 | 21 | 20 | 17 | 9 | 3 | 2 | 2 | -16 | -22 | -19 | -16 |
| -13 | -11 | -10 | -11 | -15 | -27 | -38 | -38 | -30 | -22 | -14 | -11 | -7 | -6 | -10 | -12 | -12 | -12 | -12 |
| -11 | -8 | -4 | -1 | -1 | -7 | -9 | 0 | 10 | 20 | 31 | 40 | 41 | 35 | 29 | 22 | 27 | 32 | 40 |
| 48 | 46 | 40 | 33 | 18 | 9 | 14 | 17 | 13 | 7 | 2 | -2 | -4 | -7 | -10 | -13 | -16 | -22 | -25 |
| -26 | -27 | -28 | -29 | -30 | -31 | -34 | -36 | -38 | -41 | -43 | -42 | -38 | -35 | -31 | -26 | -20 | -14 | -9 |
| -3 | 0 | 4 | 10 | 15 | 20 | 23 | 26 | 29 | 30 | 30 | 30 | 32 | 36 | 40 | 47 | 56 | 72 | 73 |
| 73 | 72 | 68 | 61 | 55 | 48 | 41 | 33 | 25 | 13 | 0 | -6 | -11 | -19 | -31 | -42 | -39 | -42 | -48 |
| -51 | -51 | -55 | -65 | -73 | -76 | -74 | -64 | -49 | -40 | -42 | -47 | -51 | -53 | -54 | -46 | -34 | -25 | -27 |
| -34 | -41 | -33 | -20 | -5 | 13 | 24 | 25 | 24 | 29 | 45 | 63 | 64 | 58 | 54 | 47 | 41 | 37 | 36 |
| 34 | 29 | 25 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 23 | 15 | 6 | -4 | -16 | -36 | -75 |
| -79 | -80 | -76 | -70 | -67 | -64 | -62 | -60 | -58 | -57 | -58 | -60 | -60 | -53 | -45 | -36 | -26 | -15 | -6 |
| -1 | -1 | 0 | 4 | 9 | 14 | 19 | 25 | 32 | 40 | 49 | 56 | 58 | 61 | 62 | 61 | 60 | 52 | 50 |
| 50 | 53 | 55 | 57 | 59 | 60 | 61 | 61 | 61 | 55 | 34 | 12 | 3 | -3 | -11 | -18 | -24 | -31 | -47 |
| -58 | -66 | -71 | -76 | -78 | -81 | -86 | -91 | -96 | -102 | -102 | -93 | -83 | -67 | -49 | -50 | -60 | -66 | -63 |
| -48 | -37 | -26 | -16 | -9 | -5 | 0 | 4 | 10 | 18 | 25 | 32 | 36 | 40 | 46 | 56 | 66 | 73 | 73 |
| 72 | 70 | 67 | 65 | 61 | 51 | 35 | 26 | 21 | 16 | 14 | 10 | 5 | 1 | 1 | 4 | 3 | -3 | -7 |
| -12 | -14 | -16 | -21 | -37 | -59 | -71 | -83 | -93 | -101 | -100 | -88 | -76 | -63 | -51 | -40 | -30 | -21 | -13 |
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| 34 | 29 | 23 | 18 | 15 | 14 | 11 | 5 | -4 | -11 | -14 | -13 | -14 | -18 | -25 | -31 | -39 | -47 | -54 |
| -53 | -52 | -50 | -50 | -50 | -50 | -50 | -46 | -38 | -30 | -24 | -21 | -18 | -15 | -12 | -9 | -6 | -3 | 1 |
| 10 | 15 | 12 | 9 | 8 | 8 | 8 | 8 | 7 | 6 | 28 | 30 | 31 | 28 | 26 | 24 | 23 | 21 | 20 |
| 16 | 14 | 12 | 9 | 8 | 8 | 8 | 8 | 7 | 6 | 4 | 2 | -3 | -9 | -15 | -22 | -27 | -25 | -20 |
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| -20 | -19 | -13 | -5 | 3 | 11 | 19 | 26 | 30 | 35 | 40 | 44 | 48 | 51 | 54 | 53 | 48 | 45 | 43 |
| 44 | 44 | 43 | 42 | 38 | 36 | 33 | 30 | 28 | 36 | 45 | 45 | 48 | 51 | 54 | 53 | 48 | 45 | 43 |
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| 20 | 40 | 33 | 15 | 4 | 8 | 23 | 31 | 33 | 34 | 31 | 25 | 22 | 20 | 26 | 22 | 17 | -14 | -7 |
| 28 | 34 | 42 | 37 | 24 | 17 | 6 | -8 | -26 | -22 | 3 | 26 | 17 | -4 | -14 | -11 | 0 | -10 | -25 |
| -38 | -21 | -3 | 9 | 6 | -2 | -16 | -18 | -9 | -5 | 4 | 16 | 28 | 28 | 28 | 34 | 31 | 22 | 18 |
| 12 | 27 | 45 | 57 | 59 | 52 | 53 | 52 | 38 | 21 | 13 | 11 | 17 | 18 | 13 | 11 | 6 | 1 | 1 |
| 12 | 4 | -10 | -24 | -30 | -21 | -15 | -16 | -16 | -16 | -15 | -16 | -18 | -23 | -29 | -33 | -30 | -29 | -33 |
| -35 | -30 | -28 | -30 | -32 | -31 | -28 | -23 | -16 | -9 | -5 | -3 | 2 | 8 | 15 | 19 | 21 | 24 | 29 |
| 40 | 43 | 43 | 43 | 43 | 43 | 43 | 42 | 42 | 41 | 39 | 35 | 28 | 18 | 10 | 6 | 8 | 10 | 11 |
| 5 | 2 | -3 | -8 | -13 | -18 | -22 | -26 | -29 | -31 | -31 | -31 | -30 | -26 | -23 | -20 | -20 | -24 | -28 |
| -26 | -23 | -20 | -16 | -13 | -9 | -5 | -2 | 2 | 6 | 12 | 18 | 24 | 29 | 31 | 35 | 38 | 45 | 54 |
| 65 | 67 | 68 | 65 | 60 | 54 | 50 | 47 | 45 | 44 | 44 | 41 | 36 | 31 | 26 | 21 | 15 | 9 | 2 |
| -11 | -12 | -12 | -14 | -18 | -22 | -26 | -31 | -37 | -42 | -47 | -49 | -49 | -49 | -49 | -49 | -47 | -43 | -40 |
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| 36 | 36 | 35 | 36 | 36 | 35 | 33 | 26 | 20 | 16 | 14 | 12 | 10 | 5 | -1 | -6 | -10 | -13 | -16 |
| -21 | -22 | -22 | -22 | -22 | -23 | -26 | -29 | -32 | -35 | -39 | -42 | -46 | -49 | -51 | -52 | -48 | -38 | -29 |
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| 18 | 18 | 18 | 18 | 18 | 18 | 18 | 16 | 12 | 9 | 6 | 7 | 9 | 10 | 10 | 8 | 6 | 4 | 1 |
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| -20 | -20 | -20 | -20 | -20 | -20 | -19 | -17 | -16 | -15 | -13 | -10 | -5 | -1 | 3 | 6 | 7 | 7 | 7 |

[illegible]

IIV321 57.011.0 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
 STATION NO. 0000 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL.
 INSTR PERIOD = 0.046 SEC DAMPING = 0.653
 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -60.0 CM/SEC AT 1.20 SEC VELO = -6.0 CM/SEC AT 6.92 SEC DISP = -1.9 CM AT 7.28 SEC

4166 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
 INITIAL VELO = 0.24992 CM/SEC INITIAL DISP = -0.34112 CM

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -115 | -63 | -5 | 52 | 90 | 113 | 101 | 52 | 2 | -53 | -80 | -88 | -83 | -56 | -16 | 22 | 58 | 95 | 120 | 122 |
| 91 | 18 | -45 | -102 | -116 | -66 | 64 | 188 | 265 | 260 | 167 | 32 | -109 | -184 | -223 | -223 | -218 | -190 | -129 | -60 |
| 57 | 199 | 267 | 237 | 101 | -102 | -258 | -353 | -348 | -229 | -2 | 276 | 441 | 455 | 399 | 265 | 17 | -287 | -500 | -594 |
| -600 | -561 | -399 | -83 | 281 | 506 | 548 | 445 | 183 | -166 | -357 | -348 | -303 | -173 | 40 | 215 | 351 | 367 | 354 | 308 |
| 241 | 112 | -57 | -233 | -337 | -318 | -223 | -58 | 123 | 251 | 320 | 300 | 214 | 96 | 35 | 15 | -3 | -13 | -9 | 17 |
| 49 | 70 | 90 | 107 | 72 | -15 | -131 | -223 | -220 | -160 | -49 | 31 | 22 | -40 | -148 | -249 | -282 | -263 | -201 | -96 |
| -10 | 3 | -38 | -94 | -142 | -123 | -55 | 67 | 176 | 215 | 207 | 113 | -42 | -188 | -285 | -355 | -356 | -257 | -53 | 135 |
| 282 | 351 | 308 | 181 | 14 | -86 | -124 | -81 | 33 | 199 | 343 | 462 | 480 | 437 | 348 | 212 | 58 | -101 | -200 | -232 |
| -181 | -89 | 38 | 157 | 188 | 159 | 88 | 21 | -45 | -52 | -17 | 35 | 81 | 108 | 96 | 67 | 27 | -9 | -36 | -54 |
| -67 | -88 | -128 | -184 | -270 | -394 | -439 | -407 | -339 | -271 | -180 | -84 | -35 | -53 | -83 | -125 | -157 | -140 | -87 | -25 |
| 30 | 92 | 147 | 126 | 66 | -1 | -89 | -173 | -220 | -199 | -109 | 24 | 173 | 288 | 314 | 272 | 222 | 165 | 114 | 81 |
| 76 | 100 | 133 | 153 | 166 | 199 | 225 | 249 | 239 | 192 | 133 | 42 | -31 | -37 | -10 | 38 | 84 | 115 | 129 | 115 |
| 90 | 51 | -7 | -52 | -62 | -58 | -63 | -72 | -89 | -112 | -145 | -189 | -245 | -288 | -291 | -272 | -244 | -196 | -152 | -108 |
| -88 | -109 | -146 | -195 | -201 | -165 | -113 | -70 | -55 | -50 | -58 | -73 | -70 | -57 | -43 | -36 | -44 | -47 | -48 | -47 |
| -41 | -22 | 13 | 45 | 117 | 201 | 231 | 236 | 221 | 197 | 176 | 173 | 191 | 214 | 226 | 213 | 184 | 132 | 83 | 69 |
| 58 | 69 | 92 | 140 | 201 | 231 | 236 | 231 | 211 | 163 | 110 | 73 | 43 | 10 | -18 | -42 | -85 | -128 | -185 | -212 |
| -198 | -190 | -183 | -182 | -188 | -200 | -226 | -243 | -244 | -228 | -207 | -184 | -158 | -138 | -144 | -164 | -193 | -231 | -249 | -234 |
| -205 | -169 | -126 | -85 | -54 | -25 | 3 | 27 | 48 | 68 | 98 | 129 | 156 | 180 | 195 | 214 | 246 | 267 | 269 | 247 |
| 237 | 225 | 204 | 182 | 171 | 161 | 164 | 171 | 175 | 178 | 179 | 179 | 179 | 179 | 179 | 181 | 185 | 187 | 175 | 130 |
| 64 | -3 | -69 | -93 | -87 | -70 | -51 | -40 | -47 | -76 | -110 | -156 | -195 | -217 | -238 | -240 | -241 | -245 | -252 | -260 |
| -265 | -274 | -295 | -302 | -292 | -280 | -260 | -233 | -194 | -135 | -89 | -58 | -32 | -17 | -3 | 9 | 17 | 31 | 52 | 75 |
| 96 | 114 | 124 | 124 | 127 | 134 | 147 | 167 | 190 | 213 | 243 | 266 | 262 | 237 | 213 | 203 | 193 | 186 | 185 | 184 |
| 178 | 167 | 145 | 123 | 104 | 89 | 79 | 68 | 59 | 56 | 55 | 50 | 46 | 39 | 15 | -28 | -75 | -126 | -162 | -179 |
| -192 | -207 | -222 | -238 | -253 | -261 | -258 | -225 | -161 | -113 | -102 | -99 | -110 | -118 | -125 | -124 | -121 | -119 | -117 | -118 |
| -123 | -124 | -115 | -86 | -51 | -15 | 21 | 56 | 88 | 108 | 123 | 134 | 139 | 137 | 136 | 146 | 163 | 176 | 185 | 185 |
| 175 | 158 | 137 | 145 | 179 | 213 | 237 | 253 | 246 | 217 | 187 | 159 | 127 | 91 | 51 | 25 | 3 | -17 | -29 | -39 |
| -57 | -95 | -138 | -174 | -193 | -195 | -193 | -184 | -173 | -167 | -168 | -178 | -178 | -161 | -161 | -139 | -129 | -124 | -146 | -195 |
| -236 | -249 | -224 | -175 | -107 | -64 | -24 | 12 | 37 | 45 | 42 | 26 | 5 | -5 | 3 | 26 | 63 | 103 | 133 | 146 |
| 153 | 155 | 156 | 159 | 159 | 159 | 155 | 149 | 134 | 119 | 111 | 102 | 93 | 86 | 83 | 81 | 80 | 80 | 80 | 83 |
| 90 | 96 | 91 | 84 | 67 | 9 | -64 | -93 | -121 | -133 | -124 | -107 | -83 | -59 | -51 | -78 | -113 | -148 | -168 | -162 |
| -137 | -108 | -74 | -43 | -16 | 1 | -3 | -21 | -44 | -73 | -118 | -155 | -162 | -157 | -128 | -93 | -49 | -18 | -5 | 4 |
| 2 | -4 | -12 | -14 | -6 | 4 | 16 | 33 | 56 | 81 | 96 | 100 | 103 | 96 | 80 | 61 | 65 | 75 | 87 | 102 |
| 116 | 128 | 135 | 137 | 138 | 137 | 130 | 117 | 104 | 93 | 82 | 71 | 62 | 53 | 44 | 32 | 18 | 7 | -6 | -23 |
| -38 | -44 | -30 | -2 | 9 | 0 | -35 | -65 | -92 | -122 | -142 | -156 | -166 | -165 | -156 | -142 | -129 | -115 | -101 | -88 |
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| 59 | 67 | 76 | 86 | 100 | 114 | 125 | 133 | 137 | 137 | -30 | -51 | -61 | -67 | -63 | 113 | 108 | 110 | 111 | 115 |
| 120 | 125 | 125 | 111 | 69 | 19 | -28 | -64 | -81 | -87 | -88 | -82 | -78 | -82 | -100 | -115 | -130 | -150 | -172 | -180 |
| -188 | -190 | -186 | -183 | -179 | -172 | -164 | -153 | -136 | -118 | -98 | -87 | -86 | -82 | -77 | -68 | -56 | -42 | -27 | -12 |
| -2 | 3 | 12 | 35 | 77 | 108 | 138 | 162 | 165 | 168 | 163 | 158 | 159 | 158 | 157 | 154 | 152 | 150 | 148 | 147 |
| 146 | 142 | 135 | 126 | 114 | 98 | 87 | 82 | 80 | 78 | 72 | 60 | 41 | 22 | 3 | -20 | -44 | -61 | -75 | -91 |
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| -115 | -95 | -80 | -69 | -59 | -51 | -50 | -48 | -38 | -23 | -3 | 17 | 34 | 50 | 64 | 79 | 99 | 119 | 136 | 151 |
| 163 | 174 | 180 | 182 | 180 | 176 | 172 | 168 | 163 | 154 | 145 | 131 | 112 | 86 | 68 | 57 | 54 | 58 | 58 | 58 |
| 56 | 46 | 28 | 11 | -3 | -14 | -20 | -21 | -24 | -28 | -39 | -64 | -96 | -125 | -150 | -164 | -170 | -165 | -161 | -157 |

| | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -153 | -149 | -145 | -142 | -140 | -139 | -133 | -124 | -116 | -108 | -99 | -88 | -69 | -53 | -42 | -26 | -6 | 10 | 25 |
| 48 | 75 | 87 | 94 | 110 | 125 | 129 | 131 | 127 | 123 | 117 | 108 | 103 | 109 | 119 | 128 | 137 | 143 | 148 |
| 150 | 142 | 129 | 118 | 105 | 82 | 51 | 29 | 8 | -26 | -37 | -42 | -43 | -47 | -54 | -61 | -67 | -75 | -84 |
| -93 | -103 | -113 | -125 | -134 | -142 | -150 | -159 | -165 | -156 | -150 | -138 | -122 | -110 | -101 | -92 | -79 | -62 | -30 |
| 0 | 20 | 34 | 43 | 44 | 41 | 39 | 37 | 36 | 43 | 47 | 52 | 58 | 66 | 76 | 90 | 106 | 121 | 134 |
| 138 | 140 | 135 | 126 | 112 | 98 | 81 | 60 | 55 | 52 | 55 | 58 | 60 | 54 | 44 | 35 | 25 | 7 | -24 |
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| -65 | -64 | -63 | -62 | -62 | -59 | -56 | -51 | -43 | -21 | -9 | 6 | 29 | 46 | 59 | 64 | 69 | 73 | 77 |
| 86 | 102 | 119 | 133 | 132 | 120 | 109 | 91 | 82 | 91 | 102 | 111 | 117 | 117 | 108 | 93 | 76 | 57 | 37 |
| 27 | 23 | 15 | 2 | -12 | -19 | -28 | -43 | -56 | -72 | -83 | -89 | -100 | -115 | -131 | -142 | -145 | -139 | -131 |
| -131 | -129 | -124 | -118 | -112 | -107 | -101 | -91 | -72 | -37 | -30 | -22 | -16 | -15 | -14 | -8 | 3 | 13 | 25 |
| 38 | 50 | 60 | 71 | 83 | 94 | 104 | 115 | 127 | 146 | 151 | 151 | 151 | 148 | 135 | 119 | 112 | 108 | 104 |
| 98 | 89 | 78 | 65 | 50 | 36 | 26 | 17 | 7 | 3 | -2 | -16 | -34 | -52 | -71 | -86 | -96 | -109 | -113 |
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| -31 | -17 | -3 | 9 | 21 | 36 | 54 | 68 | 74 | 77 | 74 | 73 | 74 | 80 | 86 | 91 | 103 | 111 | 113 |
| 112 | 104 | 99 | 93 | 90 | 87 | 85 | 82 | 76 | 66 | 60 | 55 | 47 | 35 | 19 | -1 | -21 | -34 | -41 |
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| -87 | -77 | -63 | -53 | -41 | -33 | -35 | -44 | -54 | -48 | -15 | 17 | 30 | 37 | 42 | 38 | 26 | 14 | 21 |
| 53 | 72 | 85 | 93 | 93 | 87 | 86 | 86 | 90 | 95 | 89 | 82 | 75 | 70 | 66 | 60 | 55 | 53 | 53 |
| 51 | 48 | 45 | 41 | 33 | 27 | 23 | 18 | 10 | -1 | -12 | -32 | -47 | -60 | -67 | -64 | -59 | -58 | -55 |
| -50 | -48 | -53 | -64 | -72 | -76 | -74 | -72 | -69 | -65 | -60 | -52 | -45 | -41 | -38 | -34 | -27 | -16 | -13 |
| -9 | -4 | 1 | 5 | 9 | 9 | 12 | 20 | 28 | 46 | 56 | 59 | 60 | 61 | 62 | 62 | 62 | 62 | 62 |
| 62 | 62 | 62 | 62 | 61 | 58 | 54 | 52 | 48 | 41 | 33 | 19 | 3 | 15 | -17 | -7 | -1 | 7 | 12 |
| 6 | 6 | -22 | -37 | -43 | -38 | -34 | -32 | -30 | -25 | -24 | -26 | -30 | -32 | -34 | -38 | -43 | -42 | -39 |
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| 17 | 13 | 8 | -4 | -8 | -1 | 8 | 22 | 33 | 19 | 8 | -5 | -24 | -15 | 11 | 31 | 55 | 71 | 68 |
| 52 | 27 | 13 | 5 | 4 | 4 | 5 | 8 | 9 | 4 | -3 | -11 | -19 | -19 | -11 | -2 | 8 | 16 | 13 |
| 4 | -3 | -11 | -14 | -13 | -13 | -13 | -14 | -17 | -25 | -17 | -5 | 4 | 12 | 13 | 9 | -1 | -12 | -8 |
| -5 | -2 | 1 | 1 | -3 | -3 | -7 | -16 | -22 | -14 | -9 | -3 | 1 | 3 | 3 | -3 | -6 | -3 | -2 |
| 0 | 5 | 7 | -2 | -13 | -16 | -23 | -27 | -23 | -3 | 10 | 17 | 15 | 9 | 8 | 2 | 2 | 6 | 10 |
| 13 | 5 | -7 | -18 | -31 | -40 | -38 | -28 | -17 | 7 | 1 | -4 | 1 | 8 | 19 | 33 | 51 | 58 | 46 |
| 25 | 5 | -14 | -15 | -1 | 13 | 26 | 36 | 20 | -21 | -23 | -21 | 6 | 30 | 40 | 48 | 48 | 36 | 24 |
| 10 | -3 | -16 | -27 | -38 | -49 | -58 | -58 | -51 | -24 | -7 | -6 | -15 | -21 | -26 | -33 | -30 | -28 | -27 |
| -26 | -26 | -31 | -36 | -36 | -32 | -24 | -10 | 6 | 35 | 42 | 35 | 30 | 32 | 39 | 42 | 45 | 46 | 38 |
| 29 | 23 | 13 | -6 | -13 | -3 | 0 | 7 | 16 | 23 | 15 | 6 | -4 | -12 | -17 | -25 | -39 | -32 | -17 |
| -7 | -9 | -18 | -27 | -39 | -47 | -35 | -17 | -2 | 14 | -2 | -11 | -26 | -39 | -41 | -37 | -32 | -25 | -17 |
| -7 | 5 | 17 | 31 | 39 | 41 | 35 | 24 | 18 | -3 | -3 | 5 | 25 | 42 | 51 | 54 | 48 | 32 | 6 |
| 0 | 14 | 28 | 38 | 42 | 27 | 5 | -15 | -28 | -32 | -25 | -15 | -5 | 3 | 10 | 10 | -5 | -18 | -24 |
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| -17 | -6 | 10 | 19 | 16 | 11 | 2 | -4 | -1 | 13 | 29 | 34 | 30 | 19 | 6 | -8 | -8 | 5 | 21 |
| 34 | 43 | 43 | 35 | 25 | 15 | 11 | 10 | 21 | 38 | 36 | 22 | 8 | -2 | -4 | 2 | 10 | 16 | 18 |
| 9 | 0 | -2 | -9 | -11 | 1 | 6 | 5 | -2 | -24 | -36 | -31 | -18 | -9 | -6 | -4 | -7 | -13 | -16 |
| -30 | -44 | -43 | -38 | -31 | -27 | -17 | -7 | -6 | -9 | -4 | 5 | 10 | 10 | 7 | 4 | 2 | 4 | 8 |
| 12 | 16 | 21 | 25 | 20 | 6 | -6 | -13 | -14 | 5 | 15 | 13 | 10 | 8 | 6 | 2 | 1 | 5 | 8 |
| 10 | 10 | 10 | 10 | 9 | 4 | -4 | -7 | -7 | -9 | -10 | -6 | -4 | -1 | 3 | 8 | 8 | 6 | 0 |
| -11 | -18 | -24 | -23 | -14 | -8 | 0 | 11 | 16 | 6 | 3 | 1 | 2 | 5 | 8 | 10 | 8 | 5 | 2 |
| 1 | 1 | 2 | 6 | 12 | 15 | 9 | -4 | -15 | -16 | -9 | 2 | 8 | 10 | 4 | -13 | -25 | -38 | -34 |
| -23 | -10 | 2 | 6 | 1 | -5 | -15 | -17 | -14 | -4 | 4 | 9 | 11 | 13 | 13 | 13 | 11 | 9 | 8 |
| 7 | 9 | 13 | 17 | 23 | 32 | 37 | 38 | 34 | 12 | 5 | 7 | 18 | 22 | 25 | 26 | 21 | 14 | 10 |
| 5 | -3 | -10 | -14 | -17 | -18 | -20 | -21 | -23 | -27 | -27 | -27 | -26 | -24 | -22 | -20 | -19 | -17 | -16 |
| -18 | -20 | -20 | -17 | -16 | -15 | -15 | -13 | -11 | -6 | -3 | 0 | 3 | 8 | 15 | 16 | 13 | 11 | 8 |
| 5 | 3 | 7 | 17 | 25 | 27 | 24 | 23 | 23 | 24 | 26 | 27 | 21 | 18 | 18 | 18 | 18 | 15 | 13 |
| 10 | 10 | 12 | 10 | 1 | -8 | -15 | -21 | -26 | -35 | -34 | -34 | -34 | -34 | -34 | -34 | -34 | -34 | -34 |
| -34 | -34 | -34 | -34 | -36 | -37 | -34 | -28 | -25 | -20 | -16 | -11 | -7 | -2 | 4 | 10 | 15 | 19 | 24 |
| 29 | 34 | 39 | 42 | 42 | 42 | 42 | 42 | 43 | 51 | 54 | 57 | 56 | 52 | 48 | 46 | 44 | 40 | 34 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 27 | 21 | 15 | 9 | 2 | -5 | -10 | -13 | -17 | -21 | -25 | -28 | -29 | -29 | -30 | -35 | -41 | -46 | -51 | -52 |
| -53 | -55 | -56 | -58 | -59 | -59 | -56 | -50 | -43 | -37 | -31 | -20 | -9 | -5 | -2 | 0 | 0 | 1 | 6 | 13 |
| 19 | 24 | 30 | 35 | 39 | 42 | 44 | 48 | 52 | 54 | 54 | 54 | 54 | 55 | 59 | 62 | 55 | 46 | 43 | 38 |
| 34 | 31 | 31 | 31 | 24 | 15 | 10 | 5 | -7 | -17 | -21 | -19 | -24 | -28 | -28 | -30 | -33 | -35 | -36 | -38 |
| -40 | -42 | -43 | -45 | -53 | -60 | -60 | -58 | -51 | -40 | -30 | -20 | -13 | -6 | 0 | 1 | 3 | 5 | 6 | 8 |
| 9 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 39 | 42 | 42 | 42 | 42 | 42 | 42 | 40 | 38 | 37 | 37 | 37 |
| 37 | 37 | 37 | 35 | 32 | 28 | 23 | 15 | 12 | 7 | 1 | -1 | -1 | -4 | -7 | -10 | -16 | -23 | -27 | -33 |
| -46 | -55 | -54 | -53 | -50 | -43 | -36 | -32 | -33 | -37 | -41 | -47 | -52 | -51 | -46 | -40 | -32 | -23 | -15 | -10 |
| -8 | -7 | -6 | -4 | -2 | 1 | 6 | 16 | 24 | 28 | 32 | 34 | 34 | 31 | 32 | 34 | 37 | 39 | 41 | 41 |
| 41 | 41 | 39 | 34 | 29 | 23 | 14 | 6 | 5 | 7 | 9 | 8 | 3 | -1 | -4 | -7 | -11 | -21 | -30 | -31 |
| -32 | -32 | -31 | -28 | -25 | -23 | -23 | -27 | -31 | -30 | -27 | -25 | -23 | -21 | -17 | -13 | -9 | -7 | -5 | -2 |
| 0 | 4 | 8 | 12 | 14 | 16 | 23 | 27 | 26 | 26 | 26 | 25 | 22 | 22 | 22 | 23 | 24 | 26 | 28 | 26 |
| 24 | 17 | 9 | 6 | 1 | -2 | -2 | 2 | 4 | 5 | 0 | -5 | -11 | -16 | -21 | -24 | -26 | -21 | -15 | -13 |
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| 24 | 23 | 18 | 18 | 22 | 26 | 24 | 22 | 22 | 22 | 22 | 20 | 18 | 17 | 16 | 12 | 8 | 5 | 1 | -2 |
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| 23 | 21 | 20 | 20 | 17 | 13 | 11 | 14 | 15 | 14 | 15 | 18 | 19 | 17 | 12 | 9 | 7 | 5 | 1 | -4 |
| -7 | -9 | -9 | -13 | -14 | -14 | -14 | -15 | -16 | -18 | -19 | -20 | -19 | -19 | -19 | -19 | -18 | -16 | -14 | -16 |
| -20 | -23 | -24 | -22 | -20 | -18 | -16 | -13 | -10 | -6 | -1 | 0 | -3 | -4 | -4 | -3 | -2 | 0 | 4 | 9 |
| 12 | 15 | 17 | 20 | 22 | 25 | 28 | 31 | 34 | 32 | 29 | 26 | 25 | 24 | 21 | 17 | 14 | 12 | 10 | 8 |
| 6 | 4 | 3 | 2 | -1 | -5 | -8 | -9 | -9 | -11 | -19 | -29 | -32 | -34 | -37 | -40 | -44 | -46 | -45 | -43 |
| -40 | -36 | -31 | -27 | -24 | -24 | -24 | -24 | -21 | -16 | -12 | -10 | -9 | -7 | -5 | -4 | -2 | 1 | 6 | 11 |
| 16 | 20 | 23 | 25 | 29 | 33 | 35 | 33 | 31 | 30 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 27 | 24 |
| 22 | 20 | 18 | 15 | 8 | 3 | -4 | -15 | -20 | -18 | -18 | -25 | -31 | -36 | -39 | -41 | -42 | -42 | -43 | -45 |
| -46 | -46 | -46 | -46 | -45 | -42 | -37 | -34 | -34 | -33 | -32 | -29 | -27 | -26 | -24 | -20 | -14 | -8 | -3 | 2 |
| 7 | 14 | 19 | 23 | 24 | 26 | 28 | 31 | 34 | 39 | 43 | 43 | 43 | 43 | 43 | 43 | 42 | 41 | 40 | 38 |
| 36 | 31 | 27 | 22 | 17 | 12 | 8 | 5 | 2 | -1 | -3 | -6 | -8 | -10 | -12 | -14 | -16 | -20 | -26 | -30 |
| -34 | -38 | -41 | -41 | -38 | -36 | -33 | -32 | -32 | -32 | -32 | -31 | -29 | -26 | -24 | -22 | -19 | -18 | -16 | -13 |
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| 28 | 28 | 28 | 27 | 27 | 27 | 27 | 26 | 23 | 21 | 18 | 16 | 13 | 10 | 7 | 5 | 2 | -1 | -4 | -6 |
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| 19 | 21 | 21 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 20 | 18 | 18 | 19 | 20 | 22 |
| 23 | 22 | 19 | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 1 | -1 | -3 | -5 | -7 | -10 | -11 | -11 | -11 |
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| 8 | 9 | 9 | 9 | 9 | 8 | 7 | 6 | 5 | 4 | 4 | 4 | 4 | 4 | 2 | 0 | -1 | -3 | -3 | -4 |
| -5 | -6 | -7 | -8 | -8 | -8 | -8 | -8 | -8 | -9 | -10 | -11 | -12 | -12 | -13 | -14 | -15 | -16 | -17 | -16 |
| -14 | -13 | -11 | -10 | -9 | -8 | -6 | -4 | -1 | 2 | 5 | 7 | 7 | 8 | 8 | 9 | 11 | 12 | 12 | 10 |
| 8 | 8 | 8 | 8 | 9 | 10 | 12 | 13 | 15 | 16 | 18 | 19 | 18 | 16 | 15 | 13 | 12 | 11 | 10 | 9 |
| 11 | 13 | 13 | 13 | 13 | 15 | 17 | 15 | 13 | 10 | 8 | 8 | 10 | 12 | 11 | 9 | 8 | 6 | 4 | 0 |
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| 28 | 29 | 28 | 29 | 29 | 29 | 29 | 30 | 29 | 28 | 27 | 27 | 25 | 23 | 20 | 17 | 15 | 14 | 13 | 12 |
| 10 | 9 | 7 | 5 | 3 | 1 | -1 | -3 | -6 | -9 | -12 | -14 | -17 | -19 | -21 | -22 | -24 | -26 | -28 | -28 |
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| 15 | 18 | 20 | 22 | 22 | 22 | 21 | 19 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 |
| 16 | 14 | 11 | 8 | 6 | 4 | 3 | 1 | 0 | -1 | -3 | -4 | -7 | -9 | -11 | -12 | -13 | -15 | -17 | -18 |
| -19 | -19 | -19 | -21 | -23 | -24 | -26 | -26 | -25 | -25 | -25 | -24 | -23 | -22 | -20 | -16 | -12 | -9 | -6 | -4 |
| -1 | 1 | 2 | 4 | 5 | 6 | 6 | 6 | 7 | 8 | 11 | 13 | 16 | 18 | 18 | 16 | 15 | 14 | 14 | 14 |
| 15 | 14 | 13 | 12 | 11 | 10 | 8 | 6 | 6 | 7 | 8 | 9 | 9 | 6 | 1 | -4 | -10 | -13 | -15 | -17 |
| -18 | -19 | -20 | -21 | -21 | -21 | -21 | -21 | -20 | -20 | -20 | -19 | -18 | -17 | -15 | -14 | -12 | -11 | -9 | -7 |
| -5 | -2 | 0 | 3 | 4 | 5 | 6 | 7 | 9 | 10 | 12 | 13 | 13 | 13 | 14 | 16 | 19 | 21 | 23 | 22 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 19 | 16 | 13 | 11 | 9 | 7 | 5 | 3 | 1 | 0 | -1 | -2 | -3 | -5 | -8 | -11 | -14 | -18 | -22 | -25 |
| -27 | -29 | -29 | -30 | -31 | -32 | -33 | -33 | -31 | -30 | -28 | -25 | -23 | -20 | -18 | -16 | -14 | -12 | -11 | -8 |
| 26 | 24 | 22 | 20 | 19 | 17 | 15 | 13 | 11 | 9 | 7 | 5 | 2 | 1 | 29 | 31 | 33 | 33 | 31 | 29 |
| -24 | -27 | -29 | -32 | -34 | -35 | -35 | -35 | -35 | -35 | -35 | -35 | -35 | -34 | -34 | -33 | -31 | -30 | -28 | -16 |
| -25 | -24 | -23 | -21 | -17 | -10 | -4 | 2 | 6 | 10 | 14 | 18 | 21 | 23 | 24 | 26 | 28 | 30 | 34 | 37 |
| 39 | 42 | 44 | 44 | 42 | 38 | 36 | 35 | 34 | 33 | 30 | 23 | 16 | 11 | 6 | 2 | -2 | -5 | -7 | -9 |
| -8 | -9 | -10 | -13 | -17 | -21 | -23 | -25 | -25 | -25 | -26 | -27 | -29 | -31 | -32 | -32 | -34 | -37 | -37 | -36 |
| -32 | -28 | -24 | -17 | -14 | -13 | -8 | -2 | 5 | 7 | 7 | 5 | 2 | 4 | 9 | 15 | 25 | 34 | 40 | 41 |
| 43 | 43 | 42 | 40 | 36 | 33 | 32 | 34 | 35 | 35 | 33 | 30 | 24 | 18 | 15 | 11 | 5 | -1 | -2 | 1 |
| 3 | 5 | 6 | 1 | -7 | -13 | -14 | -14 | -24 | -38 | -43 | -35 | -29 | -26 | -25 | -30 | -37 | -42 | -44 | -38 |
| -33 | -27 | -25 | -28 | -29 | -29 | -29 | -29 | -29 | -25 | -17 | -12 | -8 | -3 | 1 | 6 | 12 | 20 | 29 | 31 |
| 30 | 30 | 30 | 31 | 33 | 37 | 43 | 49 | 50 | 46 | 43 | 39 | 34 | 32 | 34 | 36 | 31 | 23 | 17 | 16 |
| 16 | 16 | 17 | 17 | 15 | 10 | 5 | 0 | -4 | -9 | -14 | -18 | -19 | -19 | -19 | -20 | -24 | -28 | -32 | -37 |
| -38 | -36 | -34 | -35 | -37 | -37 | -35 | -33 | -31 | -25 | -21 | -18 | -15 | -10 | -5 | -4 | -3 | 3 | 11 | 19 |
| 25 | 29 | 33 | 32 | 29 | 28 | 28 | 31 | 37 | 43 | 45 | 44 | 44 | 44 | 42 | 41 | 39 | 34 | 29 | 28 |
| 29 | 31 | 34 | 34 | 34 | 32 | 25 | 18 | 13 | 8 | 4 | 1 | -1 | -4 | -13 | -24 | -31 | -34 | -38 | -43 |
| -45 | -42 | -40 | -40 | -43 | -45 | -42 | -38 | -35 | -35 | -34 | -34 | -34 | -34 | -33 | -30 | -28 | -26 | -24 | -21 |
| -16 | -11 | -5 | 2 | 9 | 14 | 18 | 22 | 26 | 29 | 30 | 27 | 23 | 15 | 9 | 5 | 1 | -5 | -13 | -14 |
| 37 | 40 | 42 | 43 | 43 | 42 | 37 | 34 | 30 | 28 | 27 | 27 | -41 | -41 | -41 | -41 | -40 | -38 | -36 | -33 |
| -11 | -11 | -17 | -21 | -23 | -25 | -29 | -36 | -41 | -42 | -41 | -41 | 3 | 5 | 7 | 13 | 21 | 26 | 29 | 31 |
| -29 | -25 | -21 | -17 | -15 | -17 | -19 | -18 | -16 | -13 | 32 | 30 | 30 | 32 | 33 | 32 | 28 | 25 | 23 | 21 |
| 32 | 34 | 38 | 43 | 45 | 45 | 45 | 41 | 37 | 34 | 32 | 26 | -29 | -29 | -29 | -15 | -10 | -4 | -2 | -34 |
| 20 | 17 | 12 | 6 | 2 | 0 | -3 | -7 | -12 | -17 | -22 | -19 | -18 | -18 | -18 | -15 | -10 | -4 | 0 | 2 |
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| 5 | 10 | 16 | 21 | 25 | 27 | 29 | 30 | 30 | 28 | 27 | 26 | 26 | 26 | 26 | 26 | 27 | 27 | 27 | 27 |
| 24 | 22 | 18 | 13 | 11 | 11 | 11 | 10 | 7 | 3 | -5 | -11 | -14 | -17 | -21 | -24 | -27 | -30 | -33 | -35 |
| -35 | -30 | -27 | -28 | -33 | -36 | -35 | -33 | -31 | -32 | -34 | -34 | -30 | -25 | -25 | -25 | -23 | -16 | -8 | -2 |
| 1 | 4 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 20 | 22 | 25 | 29 | 33 | 33 | 30 | 30 | 32 | 34 | 33 |
| 30 | 29 | 29 | 29 | 28 | 24 | 19 | 16 | 14 | 12 | 9 | 8 | -30 | -29 | -29 | -28 | -25 | -23 | -20 | -13 |
| -14 | -16 | -19 | -22 | -25 | -27 | -29 | -31 | -33 | -34 | -33 | -31 | -30 | -29 | -29 | -28 | -25 | -23 | -20 | -17 |
| -14 | -11 | -8 | -5 | -3 | -1 | 2 | 7 | 11 | 14 | 18 | 20 | 20 | 20 | 21 | 24 | 27 | 30 | 31 | 31 |
| 31 | 31 | 31 | 31 | 31 | 30 | 28 | 25 | 22 | 20 | 17 | 14 | 12 | 10 | 8 | 3 | -1 | -4 | -7 | -9 |
| -11 | -13 | -17 | -22 | -26 | -31 | -35 | -37 | -39 | -39 | -37 | -35 | -34 | -32 | -31 | -29 | -26 | -22 | -19 | -16 |
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| 19 | 25 | 30 | 33 | 32 | 29 | 22 | 18 | 17 | 17 | 17 | 15 | 13 | 9 | 4 | -1 | -4 | -7 | -7 | -5 |
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| -19 | -19 | -19 | -19 | -17 | -15 | -14 | -12 | -10 | -9 | -5 | -2 | 2 | 6 | 9 | 13 | 13 | 10 | 10 | 13 |
| 16 | 19 | 23 | 27 | 29 | 28 | 25 | 23 | 21 | 22 | 24 | 25 | 23 | 22 | 20 | 20 | 18 | 17 | 17 | 14 |
| 11 | 7 | 1 | 0 | 3 | 5 | 5 | 5 | 2 | -6 | -13 | -18 | -20 | -22 | -22 | -20 | -18 | -17 | -17 | -17 |
| -16 | -14 | -12 | -12 | -12 | -10 | -8 | -7 | -7 | -10 | -16 | -15 | -12 | -9 | -5 | -2 | 2 | 4 | 6 | 8 |
| 9 | 9 | 10 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 13 | 12 | 10 | 10 | 12 | 14 | 15 |
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| -15 | -15 | -15 | -15 | -15 | -14 | -14 | -15 | -16 | -17 | -18 | -17 | -14 | -12 | -7 | -4 | -3 | -6 | -7 | -7 |
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| 15 | 17 | 20 | 23 | 26 | 26 | 24 | 22 | 18 | 12 | 7 | 3 | 1 | 3 | 5 | 5 | 2 | 0 | 0 | 0 |
| 0 | -3 | -8 | -12 | -14 | -15 | -14 | -12 | -10 | -10 | -10 | -11 | -12 | -14 | -15 | -15 | -15 | -15 | -13 | -11 |
| -9 | -7 | -5 | -3 | -1 | 0 | 1 | 1 | 3 | 6 | 8 | 10 | 11 | 9 | 8 | 8 | 12 | 16 | 20 | 22 |
| 20 | 18 | 15 | 13 | 12 | 12 | 12 | 12 | 12 | 10 | 8 | 6 | 3 | 2 | 2 | 3 | 2 | 0 | -2 | -4 |
| -6 | -8 | -8 | -8 | -8 | -9 | -14 | -18 | -19 | -19 | -18 | -17 | -15 | -15 | -17 | -18 | -17 | -15 | -14 | -14 |
| -14 | -13 | -10 | -5 | -3 | -3 | -2 | 1 | 7 | 11 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 16 |
| 21 | 23 | 22 | 20 | 18 | 14 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 4 | 0 | -3 | -5 | -7 | -7 |
| -6 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 |
| -12 | -9 | -6 | -3 | -4 | -8 | -11 | -11 | -7 | -3 | -26 | -28 | -29 | -27 | -25 | -24 | -22 | -20 | -18 | -15 |
| 12 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 13 | 11 | 10 | 3 | 8 | 13 | 14 | 11 | 10 | 10 | 10 | 10 |
| -7 | -10 | -12 | -13 | -14 | -15 | -15 | -15 | -13 | -11 | -10 | -10 | -10 | -8 | 6 | 5 | 5 | 3 | -1 | -4 |

IIV321 57.011.0
STATION NO. 0000
INSTR PERIOD = 0.045 SEC
DAMPING = 0.552
SAN FRANCISCO EARTHQUAKE
MAR 22, 1957 - 1144 PST
OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL.
ACCELEROGRAM IS BAND-PASS FILTERED
BETWEEN 0.070 AND 25 CYC/SEC.
ERICENTER - 37 40 00N, 122 29 00W
COMP UP 37 48 00N, 122 16 00W

PEAK VALS
ACLN = -96.4 CM/SEC/SEC AT 0.70 SEC
VELO = -4.1 CM/SEC AT 0.76 SEC
DISP = 3.5 CM AT 62.02 SEC

4223 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
INITIAL VELO = -0.27456 CM/SEC
INITIAL DISP = 0.24650 CM

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -455 | -182 | 138 | 310 | 353 | 322 | 224 | 73 | -72 | -142 | -159 | -157 | -170 | -207 | -288 | -307 | -206 | 5 | 209 | 323 |
| 293 | 100 | -102 | -197 | -217 | -76 | 163 | 404 | 494 | 439 | 337 | 164 | -79 | -465 | -846 | -964 | -840 | -473 | 257 | 775 |
| 876 | 775 | 541 | 110 | -215 | -330 | -297 | -201 | -76 | 32 | 60 | -17 | -118 | -146 | -75 | -12 | -5 | -91 | -212 | -331 |
| -348 | -220 | 5 | 217 | 374 | 373 | 303 | 155 | -75 | -216 | -147 | 81 | 270 | 304 | 228 | 112 | -21 | -95 | 109 | 142 |
| -202 | -281 | -281 | -168 | -53 | -26 | -71 | -157 | -216 | -262 | -271 | -173 | 44 | 344 | 542 | 574 | 559 | 482 | 314 | 19 |
| -162 | -241 | -286 | -280 | -240 | -151 | -40 | 37 | 61 | -3 | -162 | -329 | -397 | -374 | -272 | 2 | 357 | 558 | 547 | 467 |
| 296 | 71 | -151 | -226 | -182 | -10 | 186 | 220 | 161 | 72 | -14 | -51 | -19 | -27 | -66 | -109 | -176 | -265 | -286 | -224 |
| -102 | 21 | 114 | 196 | 266 | 295 | 267 | 194 | 107 | 40 | -21 | -48 | 10 | 92 | 154 | 142 | 78 | 12 | -82 | -182 |
| -229 | -228 | -213 | -226 | -258 | -263 | -191 | -82 | 22 | 97 | 151 | 223 | 261 | 243 | 203 | 147 | 77 | -2 | -58 | -80 |
| -65 | -25 | 33 | 87 | 126 | 123 | 52 | -37 | -110 | -170 | -227 | -270 | -260 | -172 | -5 | 210 | 322 | 357 | 304 | 140 |
| -43 | -132 | -186 | -181 | -113 | -31 | 42 | 98 | 122 | 138 | 135 | 111 | 50 | -21 | -79 | -101 | -90 | -84 | -105 | -142 |
| -129 | -71 | 11 | 85 | 92 | 33 | -46 | -146 | -153 | -70 | 62 | 139 | 133 | 77 | 2 | -76 | -109 | -96 | -62 | -20 |
| 14 | -7 | -50 | -105 | -130 | -117 | -64 | 20 | 83 | 104 | 81 | 46 | 17 | -8 | -6 | 39 | 75 | 79 | 45 | 13 |
| 0 | 23 | 66 | 117 | 148 | 126 | 49 | -46 | -66 | -14 | 67 | 96 | 38 | -85 | -212 | -245 | -191 | -109 | -40 | 15 |
| 17 | 1 | 18 | 69 | 138 | 183 | 165 | 120 | 72 | 38 | 27 | 37 | 38 | -11 | -90 | -170 | -221 | -231 | -200 | -171 |
| -146 | -120 | -100 | -83 | -59 | -12 | 39 | 88 | 131 | 173 | 226 | 275 | 281 | 245 | 163 | 55 | -18 | -40 | -22 | -1 |
| -4 | -39 | -87 | -135 | -158 | -145 | -66 | 7 | 40 | 29 | 27 | 32 | 51 | 69 | 82 | 77 | 65 | 56 | 49 | 46 |
| 49 | 61 | 80 | 93 | 80 | 33 | -52 | -167 | -254 | -252 | -202 | -116 | -72 | -87 | -101 | -90 | -43 | 28 | 51 | 10 |
| -44 | -81 | -63 | -10 | 57 | 115 | 154 | 149 | 107 | 42 | -26 | -59 | -57 | -40 | -21 | -2 | 13 | 28 | 46 | 56 |
| 55 | 54 | 52 | 47 | 38 | 32 | 30 | 31 | 36 | 34 | 14 | -18 | -47 | -66 | -62 | -37 | -9 | 20 | 41 | 44 |
| 27 | 6 | 2 | 8 | 9 | 9 | 3 | 1 | 1 | -2 | -16 | -39 | -58 | -67 | -65 | -52 | -37 | -29 | -34 | -39 |
| -37 | -19 | 3 | 19 | 20 | 6 | -4 | -15 | -27 | -45 | -55 | -54 | -32 | 10 | 60 | 95 | 95 | 65 | 28 | -14 |
| -53 | -65 | -47 | -15 | 27 | 61 | 72 | 66 | 70 | 86 | 115 | 149 | 159 | 128 | 62 | -22 | -82 | -83 | -51 | -19 |
| -1 | -14 | -35 | -62 | -89 | -104 | -87 | -51 | -16 | 2 | 12 | 19 | 27 | 26 | 17 | -8 | -30 | -40 | -45 | -46 |
| -55 | -84 | -111 | -116 | -92 | -49 | 6 | 33 | 31 | 26 | 29 | 40 | 59 | 75 | 76 | 52 | 18 | -10 | -14 | 19 |
| 67 | 100 | 102 | 77 | 51 | 33 | 39 | 46 | 34 | -7 | -44 | -71 | -78 | -72 | -63 | -56 | -57 | -64 | -51 | -21 |
| 10 | 41 | 60 | 47 | 30 | 17 | 2 | -3 | 11 | 23 | 29 | 19 | -8 | -33 | -57 | -77 | -92 | -111 | -129 | -131 |
| -113 | -81 | -39 | 2 | 33 | 61 | 85 | 96 | 97 | 88 | 64 | 35 | -1 | -21 | -15 | 1 | 20 | 37 | 49 | 54 |
| 49 | 37 | 22 | 0 | -29 | -56 | -67 | -64 | -41 | -16 | 14 | 25 | 12 | -4 | -16 | -24 | -18 | -5 | 8 | 19 |
| 22 | 16 | 22 | 32 | 39 | 35 | 27 | 14 | -14 | -55 | -95 | -109 | -102 | -108 | -119 | -116 | -85 | -43 | 3 | 50 |
| 88 | 83 | 65 | 42 | 15 | 1 | 9 | 16 | 23 | 30 | 38 | 47 | 54 | 53 | 40 | 16 | -17 | -49 | -59 | -48 |
| -36 | -35 | -42 | -42 | -25 | 14 | 59 | 96 | 112 | 97 | 74 | 55 | 60 | 76 | 95 | 100 | 63 | 1 | -59 | -94 |
| -93 | -79 | -73 | -88 | -110 | -116 | -105 | -86 | -47 | 4 | 35 | 37 | 23 | 13 | 23 | 32 | 37 | 26 | 11 | 3 |
| 6 | 21 | 33 | 35 | 29 | 13 | -8 | -31 | -51 | -58 | -45 | -22 | -1 | 3 | -5 | -5 | 10 | 24 | 24 | 21 |
| 21 | 21 | 37 | 63 | 74 | 58 | 33 | 9 | 7 | 21 | 25 | 16 | -14 | -56 | -98 | -115 | -93 | -66 | -44 | -25 |
| -6 | 18 | 43 | 66 | 80 | 75 | 57 | 35 | 14 | 3 | 2 | 2 | 0 | -10 | -26 | -45 | -60 | -64 | -54 | -43 |
| -44 | -67 | -95 | -69 | -69 | -22 | 20 | 39 | 43 | 39 | 34 | 31 | 36 | 55 | 76 | 91 | 96 | 87 | 75 | 71 |
| 65 | 53 | 37 | 21 | -1 | -31 | -60 | -84 | -98 | -99 | -76 | -42 | -6 | 28 | 53 | 65 | 75 | 76 | 70 | 57 |
| 43 | 30 | 17 | 7 | -2 | -4 | 1 | 6 | 5 | -9 | -26 | -43 | -55 | -58 | -59 | -56 | -50 | -41 | -27 | -11 |
| 1 | -4 | -9 | -4 | 7 | 17 | 29 | 39 | 34 | 28 | 26 | 22 | 17 | 11 | -1 | -21 | -34 | -36 | -28 | -22 |
| -19 | -15 | -6 | 9 | 21 | 27 | 29 | 28 | 26 | 33 | 42 | 45 | 41 | 35 | 24 | 15 | 4 | -9 | -26 | -39 |
| -41 | -35 | -27 | -18 | -12 | -6 | -1 | 4 | 9 | 14 | 17 | 12 | 1 | -13 | -17 | 2 | 22 | 40 | 50 | 39 |
| 17 | 5 | -10 | -27 | -42 | -50 | -55 | -53 | -46 | -35 | -24 | -13 | 0 | 12 | 16 | 9 | 3 | 5 | 17 | 32 |
| 38 | 39 | 34 | 25 | 15 | 4 | -6 | -17 | -27 | -37 | -36 | -28 | -20 | -10 | -1 | 6 | 10 | 14 | 21 | 28 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 32 | 34 | 35 | 34 | 30 | 22 | 12 | 0 | -7 | -2 | 1 | -6 | -22 | -36 | -49 | -52 | -48 | -38 | -28 | -30 |
| -43 | -56 | -59 | -36 | -3 | 31 | 57 | 68 | 58 | 42 | 34 | 29 | 24 | 6 | -16 | -27 | -28 | -16 | -5 | 3 |
| -6 | -30 | -41 | -29 | -18 | -9 | -1 | 3 | -1 | -4 | -5 | 4 | 17 | 30 | 44 | 58 | 59 | 51 | 43 | 31 |
| 20 | 8 | -6 | -23 | -38 | -48 | -51 | -41 | -28 | -18 | -10 | -2 | 7 | 17 | 26 | 29 | 24 | -34 | 29 | 33 |
| 24 | 6 | -6 | -14 | -7 | 9 | 23 | 30 | 10 | -19 | -45 | -61 | -57 | -54 | -50 | -45 | -40 | -14 | -19 | 1 |
| 24 | 47 | 66 | 66 | 49 | 37 | 32 | 29 | 25 | 21 | 11 | -4 | -18 | -26 | -24 | -19 | -16 | -14 | -19 | -25 |
| -21 | -8 | 3 | 8 | 4 | 2 | 10 | 30 | 47 | 53 | 38 | 23 | 12 | 9 | 10 | 10 | 6 | -8 | -23 | -35 |
| -41 | -43 | -39 | -35 | -38 | -41 | -42 | -31 | -12 | 11 | 34 | 39 | 32 | 28 | 30 | 36 | 40 | 45 | 44 | 37 |
| 26 | 10 | -3 | -7 | -7 | -13 | -30 | -48 | -62 | -64 | -54 | -38 | -14 | 9 | 25 | 33 | 36 | 38 | 38 | 29 |
| 17 | 14 | 24 | 37 | 44 | 40 | 22 | 3 | -18 | -38 | -48 | -53 | -55 | -52 | -49 | -49 | -58 | -58 | -33 | -7 |
| 16 | 34 | 43 | 42 | 34 | 30 | 29 | 30 | 32 | 36 | 36 | 23 | 4 | -12 | -23 | -21 | -16 | -10 | -3 | 3 |
| 3 | -4 | -10 | -10 | 1 | 12 | 12 | 23 | 22 | 17 | 10 | -1 | -1 | -2 | -4 | -8 | -12 | -7 | 9 | 24 |
| 32 | 18 | -2 | -19 | -35 | -39 | -30 | -25 | -23 | -20 | -17 | -14 | -8 | -3 | 2 | 7 | 9 | 12 | 14 | 19 |
| 27 | 28 | 19 | 8 | -7 | -14 | -8 | 0 | 6 | 10 | 7 | 5 | 2 | -1 | -4 | -7 | -13 | -19 | -25 | -26 |
| -22 | -19 | -15 | -10 | -5 | 0 | 8 | 15 | 23 | 31 | 32 | 19 | 5 | -9 | -17 | -16 | -14 | -15 | -25 | -41 |
| -53 | -53 | -33 | -9 | 19 | 45 | 54 | 27 | -3 | -34 | -55 | -49 | -27 | -2 | 22 | 36 | 27 | 10 | -4 | -10 |
| -3 | 2 | 6 | 1 | -9 | -15 | -7 | 12 | 25 | 20 | 2 | -14 | -23 | -20 | -11 | 6 | 23 | 38 | 37 | 17 |
| -4 | -26 | -43 | -45 | -30 | -16 | -3 | 9 | 19 | 22 | 14 | -10 | -37 | -60 | -58 | -36 | -8 | 19 | 42 | 47 |
| 37 | 28 | 18 | 7 | -4 | -16 | -31 | -39 | -22 | 0 | 15 | 15 | 7 | 3 | -2 | -4 | -6 | -9 | -15 | -21 |
| -20 | -10 | 0 | 9 | -4 | 2 | 3 | 16 | 30 | 43 | 52 | 41 | 19 | 1 | -13 | -21 | -29 | -38 | -47 | -56 |
| -58 | -45 | -31 | -18 | -4 | 4 | -1 | -9 | -5 | 12 | 28 | 41 | 37 | 23 | 10 | -6 | -21 | -27 | -21 | -15 |
| -9 | -4 | 0 | -5 | -15 | -20 | -14 | -2 | 8 | 16 | 14 | 6 | 1 | 3 | 13 | 22 | 23 | 18 | 14 | 10 |
| 8 | 6 | 4 | 1 | -8 | -18 | -26 | -22 | -11 | -1 | 7 | 7 | 4 | 2 | 0 | -3 | -6 | -9 | -11 | -7 |
| 0 | 8 | 18 | 27 | 30 | 11 | -14 | -37 | -50 | -37 | -19 | -4 | 0 | -7 | -14 | -15 | -7 | 1 | 10 | 17 |
| 23 | 27 | 35 | 42 | 35 | 9 | -13 | -20 | -12 | -5 | -19 | 12 | 22 | 31 | -4 | 48 | 48 | 34 | 6 | -27 |
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| -15 | -12 | -27 | -52 | -69 | -56 | -8 | 35 | 66 | 54 | 30 | 14 | 8 | 2 | -4 | -18 | -37 | -41 | -23 | -6 |
| 11 | 16 | -2 | -19 | -32 | -22 | 2 | 22 | 39 | 36 | 25 | 18 | 12 | 7 | -4 | -21 | -32 | -23 | -3 | 13 |
| 21 | 3 | -17 | -33 | -22 | 15 | 44 | 46 | 17 | -8 | -24 | -8 | 15 | 36 | 46 | 26 | -2 | -14 | 2 | 21 |
| 35 | 26 | -4 | -28 | -34 | -15 | 1 | 10 | -11 | -43 | -67 | -59 | -20 | 15 | 40 | 35 | 14 | -9 | -17 | 8 |
| 34 | 49 | 39 | 22 | 9 | 4 | 10 | 14 | 5 | -25 | -49 | -38 | -6 | 18 | 34 | 23 | 8 | -3 | -10 | -3 |
| 14 | 25 | 22 | 13 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 12 | 25 | 35 | 30 | 12 | -4 | -19 | -25 | -31 |
| -11 | 7 | 25 | 28 | 16 | 3 | -11 | -19 | -7 | 13 | 31 | 44 | 43 | 39 | 29 | 18 | 7 | -7 | -33 | -43 |
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| 19 | 15 | 12 | 11 | 17 | 24 | 28 | 17 | -1 | -17 | -25 | -14 | -2 | 6 | 4 | -3 | -9 | -9 | 0 | 9 |
| 16 | 13 | 1 | -10 | -15 | -6 | 4 | 13 | 21 | 22 | 15 | 9 | 8 | 17 | 21 | 9 | -4 | -24 | 2 | 13 |
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| 19 | 13 | -5 | -21 | -29 | -18 | 0 | 15 | 22 | 12 | 2 | -7 | -8 | 7 | 22 | 36 | 40 | 24 | 8 | -6 |
| -14 | -13 | -11 | -11 | -9 | -5 | 3 | 11 | 14 | 3 | -11 | -24 | -34 | -33 | -29 | -25 | -19 | -11 | -4 | 4 |
| 11 | 16 | 13 | 8 | 3 | -1 | -6 | -11 | -13 | -6 | 5 | 15 | 23 | 20 | 7 | -5 | -17 | -26 | -4 | -16 |
| 11 | 2 | 11 | 18 | 15 | 4 | -7 | -18 | -23 | -14 | -3 | 7 | 15 | 13 | 8 | 7 | 14 | 22 | 20 | 6 |
| -7 | -18 | 11 | 10 | -4 | -6 | -14 | -19 | -10 | 5 | 16 | 18 | 11 | 6 | 1 | 2 | 8 | 12 | 6 | -6 |
| -16 | -25 | -24 | -17 | -11 | -5 | -5 | -11 | -15 | -15 | -5 | 4 | 1 | -11 | -20 | -19 | -8 | 0 | 9 | 14 |
| 20 | 25 | 27 | 19 | 10 | 2 | -7 | -16 | -20 | -20 | -20 | -21 | -23 | -25 | -24 | -20 | -15 | -11 | -6 | 1 |
| 10 | 19 | 28 | 29 | 20 | 11 | 4 | 8 | 18 | 25 | 22 | 13 | 1 | -18 | -35 | -38 | -28 | -19 | -12 | -10 |
| -11 | -10 | -9 | -5 | -2 | 1 | 4 | 9 | 19 | 25 | 24 | 20 | 18 | 16 | 18 | 19 | 13 | -3 | -18 | -32 |
| -40 | -34 | -19 | -8 | -7 | -30 | -4 | -35 | -26 | -14 | -3 | 7 | 9 | 6 | 4 | 2 | 0 | -1 | -1 | -1 |
| -1 | -1 | -1 | -1 | -2 | -5 | -7 | -10 | -11 | -9 | -6 | -4 | -3 | -7 | -13 | -15 | -11 | -5 | -2 | -3 |
| -5 | -6 | -4 | -3 | -2 | -4 | -2 | -5 | -5 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -16 | -15 | -13 | -12 |
| -9 | -9 | 4 | 9 | 8 | 2 | -2 | -2 | -5 | -5 | -4 | -2 | -4 | -4 | -4 | -4 | -4 | -3 | -1 | -2 |
| -7 | -7 | -13 | -14 | -12 | 1 | 1 | 10 | 13 | 10 | 6 | 2 | 2 | 2 | -1 | -6 | -9 | -9 | -1 | -9 |
| -11 | -14 | -17 | -18 | -14 | -6 | -7 | -4 | -6 | -7 | 4 | 2 | 8 | 15 | 17 | 11 | 8 | 7 | 5 | 4 |
| 1 | 1 | -6 | -7 | -6 | -5 | -5 | -3 | -1 | -3 | -7 | -12 | -15 | -12 | -8 | -2 | 9 | 18 | 16 | 7 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 7 | 10 | 14 | 18 | 21 | 21 | 15 | 8 | 0 | -6 | -12 | -14 | -14 | -9 | -7 | -4 | -3 | -3 | -3 | |
| -5 | -7 | -5 | 0 | 5 | -11 | 20 | 24 | 20 | 14 | 6 | 0 | 0 | -10 | -8 | -5 | 2 | 8 | 11 | |
| 14 | 10 | 1 | -5 | -2 | -2 | -12 | -6 | -1 | 3 | 6 | 8 | 8 | 7 | 2 | -2 | 1 | 5 | 4 | |
| -2 | -6 | -8 | -5 | -11 | -9 | -7 | -6 | 7 | 6 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | |
| 15 | 12 | 4 | -3 | -4 | -2 | 4 | 9 | 12 | 11 | -1 | 8 | 7 | 7 | 20 | 14 | 8 | 7 | 12 | |
| 15 | 17 | 18 | 18 | 18 | 16 | 11 | 1 | -11 | -20 | -21 | -14 | -9 | -6 | -4 | 7 | 10 | 12 | 13 | |
| 11 | 14 | 14 | 14 | 13 | 11 | 8 | 6 | 3 | 0 | 0 | 4 | 10 | 13 | -4 | 0 | 2 | 5 | 8 | |
| 15 | 15 | 15 | 14 | 12 | 11 | 9 | 7 | 5 | 3 | 1 | -1 | 0 | 15 | 15 | 15 | 15 | 15 | 15 | |
| 0 | 0 | 3 | 7 | 11 | 13 | 13 | 8 | 3 | -1 | 1 | -5 | -2 | 3 | 4 | 4 | 4 | 3 | 2 | |
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| -5 | -2 | 1 | 3 | 6 | 12 | 12 | 14 | 11 | 7 | 4 | 4 | 4 | 4 | 16 | 6 | -3 | -8 | -7 | |
| 4 | 4 | 2 | -2 | -6 | -10 | -15 | -19 | -22 | -20 | -16 | -12 | -6 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 16 | 19 | 17 | 12 | -3 | -10 | -10 | -11 | -12 | -10 | -8 | -6 | -4 | 0 | 12 | 13 | 11 | 10 | 12 | |
| 10 | 11 | 12 | 13 | 15 | 17 | 19 | 16 | 10 | 5 | -1 | -6 | -4 | -2 | 1 | 3 | 5 | 7 | 9 | |
| -4 | -1 | 3 | 7 | 10 | -1 | 13 | 14 | 14 | 12 | 10 | -6 | -11 | -15 | -25 | -26 | -17 | -10 | -7 | |
| -13 | -10 | -9 | -7 | -5 | -3 | -2 | 1 | 4 | 9 | 15 | 20 | 21 | 0 | -7 | -13 | -20 | -21 | -17 | |
| -2 | -6 | -10 | -13 | -15 | -14 | -9 | -5 | -3 | 0 | 3 | 7 | 11 | 21 | 16 | 8 | 1 | -1 | -1 | |
| -6 | -8 | -10 | -11 | -11 | -11 | -11 | -11 | -11 | -9 | -8 | -5 | -2 | -1 | 11 | 7 | 3 | 0 | -3 | |
| 5 | 5 | 3 | 1 | -1 | -1 | -5 | -6 | -6 | -6 | -6 | -4 | -4 | -2 | 0 | 0 | 2 | 4 | 5 | |
| 2 | 5 | 7 | 9 | 13 | 18 | 18 | 9 | 1 | -6 | -11 | -17 | -22 | -15 | -1 | -10 | -8 | -1 | 0 | |
| -5 | -4 | -3 | -2 | -1 | -1 | 2 | 3 | 4 | 4 | 4 | 3 | 2 | -1 | -12 | -10 | -7 | -6 | -6 | |
| -19 | -22 | -19 | -14 | -9 | -4 | -4 | 6 | 9 | 8 | 7 | 6 | 5 | -3 | -5 | -7 | -10 | -13 | -16 | |
| -10 | -9 | -8 | -7 | -6 | -5 | -4 | -3 | -2 | -1 | -1 | -1 | -1 | 0 | -3 | -3 | -7 | -10 | -11 | |
| -8 | 6 | 7 | 4 | 0 | -21 | -8 | -16 | -10 | -12 | -10 | -10 | -10 | -10 | -10 | -1 | -1 | -2 | -5 | |
| 2 | 2 | 1 | 0 | -1 | -4 | -2 | -3 | -4 | -4 | -5 | -6 | -6 | -5 | 0 | 1 | 3 | 4 | 2 | |
| -10 | -12 | -14 | -10 | -10 | -7 | -4 | -5 | -7 | -8 | -9 | -8 | -6 | -5 | -5 | -5 | -6 | -8 | 3 | |
| -15 | -17 | -13 | -8 | -4 | -8 | 8 | 6 | 7 | 7 | 8 | 8 | 8 | -3 | -2 | 0 | 1 | 3 | 4 | |
| -13 | -11 | -8 | -6 | -3 | 0 | 2 | 4 | 4 | 4 | 2 | 2 | -7 | 8 | -18 | -12 | 7 | 0 | -8 | |
| -5 | -2 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 5 | 4 | 5 | 0 | -16 | -12 | -18 | -17 | -15 | -8 | |
| -4 | -5 | -7 | -9 | -10 | -14 | -18 | -10 | -18 | -15 | -5 | -4 | -2 | 5 | 4 | 2 | 1 | 0 | -2 | |
| 5 | 6 | 2 | -3 | -9 | 7 | 6 | 7 | 6 | 1 | -14 | -10 | -4 | -6 | -4 | -2 | 5 | 6 | 6 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 7 | 8 | 8 | 6 | 5 | 4 | 3 | 2 | 2 | 2 | 4 | 4 | 4 | |
| 3 | 3 | 3 | 4 | 5 | 5 | 8 | 8 | 8 | 6 | 5 | 4 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 6 | 7 | 8 | 8 | 9 | 9 | 9 | 7 | 7 | -4 | -1 | -1 | -2 | 3 | 4 | 8 | 6 | 5 | 6 | |
| 0 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 11 | 16 | 17 | 17 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 12 | 6 | 5 | 5 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 18 | 14 | 13 | 11 | 9 | 8 | |
| 6 | 11 | 8 | 5 | 2 | -1 | -2 | 1 | 3 | 6 | 5 | 5 | 5 | 2 | 2 | 2 | 2 | 4 | 7 | 22 |
| 21 | 18 | 16 | 13 | 12 | 14 | 16 | 16 | 12 | 9 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -5 | -4 | -3 | -2 | -2 | 3 | 5 | 5 | 9 | 3 | 16 | 18 | 20 | 23 | -1 | -3 | -5 | -6 | -6 | -6 |
| 8 | 9 | 8 | 9 | 9 | 10 | 10 | 12 | 14 | 10 | 11 | 11 | 11 | 11 | 21 | 16 | 12 | 8 | 7 | 7 |
| -1 | 1 | 2 | 4 | 2 | 0 | -2 | -3 | -4 | -5 | -6 | -8 | -9 | -10 | 11 | 11 | 11 | 10 | 10 | 10 |
| 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | -11 | -12 | -13 | -11 | -7 | -4 | 1 |
| 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| -7 | -8 | -8 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -10 | -10 | -10 | -2 | -3 | -4 | -5 | -6 | -6 |
| -20 | -20 | -15 | -9 | -4 | -2 | -6 | -11 | -14 | -14 | -10 | -8 | -10 | -13 | -11 | -11 | -13 | -15 | -18 | -2 |

[illegible]

IIV322 57.014.0 MAR 22, 1957 - 1515 PST
 STATION NO. 78 SOUTHERN PACIFIC BLDG., BSMT, SAN FRANCISCO, CAL
 INSTR PERIOD = 0.067 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.
 EPICENTER - 37 39 00N, 122 27 00W
 COMP N45E 37 48 00N, 122 24 00W

PEAK VALS ACCLN = 8.6 CM/SEC/SEC AT 3.06 SEC VELO = -0.8 CM/SEC AT 0.36 SEC DISP = -0.4 CM AT 34.74 SEC

2436 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
 INITIAL VELO = 0.39387 CM/SEC INITIAL DISP = 0.20968 CM

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -33 | -36 | -34 | -32 | -30 | -23 | -16 | -21 | -39 | -58 | -71 | -60 | -30 | -10 | -16 | -37 | -45 | -34 | -4 | 24 |
| 37 | 42 | 34 | 26 | 30 | 43 | 58 | 51 | 17 | -20 | -36 | -36 | -28 | -16 | -7 | -1 | 0 | 2 | 10 | 19 |
| 23 | 20 | 12 | 6 | 11 | 21 | 31 | 39 | 44 | 47 | -48 | -48 | 33 | 18 | 4 | -12 | -28 | -37 | -42 | -40 |
| -35 | -29 | -24 | -26 | -30 | -32 | -30 | -24 | -16 | -9 | -5 | -6 | -9 | -9 | -6 | -2 | 3 | 9 | 16 | 28 |
| 33 | 22 | 8 | -4 | -12 | -14 | -11 | -4 | 4 | 9 | 9 | 10 | 12 | 18 | 25 | 33 | 34 | 28 | 18 | 5 |
| -6 | -12 | -14 | -18 | -21 | -19 | -16 | -16 | -13 | -13 | -8 | -1 | 7 | 14 | 23 | 31 | 35 | 36 | 34 | 24 |
| 12 | 2 | -8 | -13 | -9 | -6 | -6 | -11 | -18 | -23 | -27 | -32 | -38 | -43 | -45 | -43 | -41 | -41 | -35 | -26 |
| -19 | -13 | -7 | 0 | 7 | 17 | 25 | 32 | 41 | 53 | 65 | 75 | 83 | 86 | 77 | 61 | 46 | 34 | 23 | 12 |
| 2 | -3 | -7 | -9 | -13 | -19 | -21 | -21 | -24 | -35 | -46 | -51 | -51 | -45 | -38 | -32 | -27 | -23 | -19 | -16 |
| -16 | -16 | -12 | -2 | 6 | 5 | 0 | -4 | -8 | -6 | -1 | 10 | 17 | 18 | 16 | 14 | 16 | 21 | 27 | 31 |
| 33 | 33 | 32 | 31 | 32 | 33 | 34 | 34 | 31 | 27 | 21 | 16 | 16 | 17 | 14 | 6 | -2 | -12 | -25 | -36 |
| -41 | -40 | -38 | -39 | -38 | -37 | -35 | -34 | -32 | -30 | -24 | -18 | -15 | -10 | -4 | 3 | 11 | 17 | 19 | 20 |
| 15 | 7 | 1 | -1 | 1 | 5 | 9 | 9 | 7 | 5 | 3 | 1 | -1 | -1 | 1 | 8 | 18 | 26 | 28 | 27 |
| 27 | 28 | 31 | 31 | 25 | 18 | 13 | 6 | -1 | -10 | -21 | -31 | -38 | -42 | -44 | -44 | -41 | -36 | -30 | -23 |
| -14 | -4 | 2 | 7 | 12 | 16 | 20 | 23 | 23 | 24 | 24 | 21 | 15 | 7 | 3 | 6 | 9 | 13 | 18 | 19 |
| 16 | 13 | 9 | 6 | 3 | 1 | 3 | 5 | 1 | -3 | -8 | -13 | -16 | -16 | -16 | -20 | -26 | -30 | -35 | -35 |
| -32 | -26 | -20 | -15 | -8 | -3 | 2 | 7 | 10 | 14 | 18 | 18 | 17 | 14 | 12 | 15 | 17 | 19 | 21 | 22 |
| 21 | 17 | 12 | 4 | -6 | -14 | -20 | -25 | -26 | -27 | -27 | -24 | -18 | -9 | -2 | 1 | 4 | 10 | 15 | 18 |
| 21 | 27 | 31 | 32 | 33 | 34 | 33 | 30 | 25 | 24 | 24 | 15 | 4 | -2 | -5 | -7 | -14 | -21 | -24 | -27 |
| -30 | -32 | -33 | -33 | -33 | -31 | -26 | -23 | -21 | -23 | -25 | -22 | -16 | -10 | -8 | -5 | -3 | 0 | 6 | 10 |
| 13 | 13 | 11 | 12 | 14 | 19 | 23 | 25 | 26 | 24 | 18 | 15 | 16 | 19 | 22 | 23 | 23 | 22 | 21 | 21 |
| 21 | 19 | 14 | 3 | -9 | -18 | -24 | -26 | -26 | -29 | -32 | -33 | -33 | -32 | -27 | -22 | -17 | -13 | -14 | -17 |
| -19 | -19 | -19 | -17 | -12 | -6 | 0 | 2 | -2 | -6 | -7 | -5 | -1 | 5 | 8 | 8 | 7 | 8 | 10 | 14 |
| 18 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 19 | 16 | 13 | 9 | 7 | 7 | 19 | 12 | 8 | 2 | -3 |
| -11 | -15 | -15 | -14 | -12 | -6 | -3 | -6 | -9 | -10 | -10 | -7 | -4 | -6 | -12 | -19 | -24 | -26 | -26 | -24 |
| -24 | -26 | -28 | -31 | -35 | -37 | -33 | -28 | -21 | -13 | -9 | -8 | -6 | -4 | -1 | 6 | 13 | 19 | 23 | 27 |
| 32 | 35 | 37 | 41 | 46 | 46 | 41 | 34 | 24 | 17 | 14 | 15 | 19 | 18 | 13 | 7 | 1 | -3 | -4 | -1 |
| -1 | -2 | -5 | -9 | -14 | -18 | -19 | -18 | -20 | -25 | -27 | -27 | -28 | -31 | -33 | -33 | -30 | -28 | -29 | -31 |
| -29 | -24 | -17 | -10 | -4 | 1 | 5 | 8 | 14 | 22 | 28 | 29 | 27 | 25 | 25 | 26 | 29 | 31 | 33 | 32 |
| 28 | 24 | 20 | 18 | 16 | 14 | 10 | 5 | 0 | -4 | -6 | -7 | -9 | -8 | -7 | -10 | -17 | -22 | -22 | -18 |
| -14 | -11 | -7 | -3 | -1 | -2 | -4 | -2 | 1 | 1 | 1 | 3 | 7 | 8 | 8 | 8 | 10 | 12 | 14 | 12 |
| 10 | 10 | 10 | 9 | 5 | 2 | 0 | 0 | 0 | 0 | -1 | -2 | -1 | 1 | 3 | 1 | -3 | -3 | 0 | 2 |
| 2 | 0 | -1 | 2 | 4 | 3 | 1 | 1 | 1 | 7 | 9 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 9 | 8 |
| 7 | 6 | 5 | 4 | 3 | 1 | -1 | -5 | -9 | -10 | -10 | -10 | -10 | -10 | -10 | -10 | -10 | -10 | -10 | -10 |
| -10 | -10 | -9 | -6 | -3 | 2 | 4 | 5 | 5 | 5 | 5 | 8 | 10 | 8 | 5 | 2 | -3 | -5 | -5 | -8 |
| 0 | 0 | 0 | 0 | 1 | 3 | 5 | 5 | 5 | 5 | 6 | 8 | 10 | 8 | 5 | 2 | 0 | 1 | 1 | 1 |
| -11 | -13 | -14 | -14 | -14 | -14 | -13 | -12 | -11 | -10 | -9 | -7 | -6 | -3 | -1 | 0 | 1 | 1 | 1 | 1 |
| 2 | 2 | 1 | 2 | 0 | 0 | 3 | 3 | 4 | 3 | 3 | 5 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 2 | 4 | 6 | 7 | 3 | -2 | -3 | -4 | -2 | 2 | 2 | 0 | -1 | -2 | -4 | -3 | -1 | 1 | 1 |
| 1 | 0 | 1 | 1 | 0 | -1 | -3 | -5 | -7 | -6 | -6 | -6 | -6 | -8 | -9 | -10 | -11 | -10 | -8 | -7 |
| -7 | -8 | -8 | -6 | -4 | -3 | -2 | -3 | -4 | -4 | -3 | 0 | 2 | 4 | 8 | 11 | 14 | 17 | 17 | 16 |
| 15 | 14 | 13 | 12 | 11 | 10 | 8 | 6 | 4 | 2 | 0 | -2 | -4 | -6 | -8 | -11 | -10 | -9 | -12 | -15 |
| -14 | -12 | -9 | -6 | -3 | -1 | -2 | -3 | -3 | -5 | -8 | -6 | -2 | 1 | 3 | 3 | 2 | 1 | 1 | 0 |
| -1 | -3 | -2 | 1 | 4 | 5 | 1 | -2 | -2 | 0 | 2 | 3 | 4 | 4 | 3 | 1 | 0 | 2 | 3 | 1 |

[illegible]

[illegible]

IIV322 57.014.0 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST EPICENTER - 37 39 00N, 122 27 00W
STATION NO. 78 SOUTHERN PACIFIC BLDG., BSMT, SAN FRANCISCO, CAL COMP N45W 37 48 00N, 122 24 00W
INSTR PERIOD = 0.066 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACLN = -24.6 CM/SEC AT 1.26 SEC VELO = 2.6 CM/SEC AT 1.12 SEC DISP = 1.2 CM AT 11.16 SEC

INITIAL VELO = 1.12630 CM/SEC INITIAL DISP = 0.42087 CM

2434 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|-----|-----|-----|------|
| 66 | -22 | -65 | -77 | -69 | -56 | -47 | -39 | -60 | -99 | -135 | -176 | -195 | -180 | -150 | -116 | -85 | -51 | -11 | 39 |
| 90 | 118 | 123 | 112 | 92 | 69 | 49 | 32 | 15 | -21 | -57 | -72 | -79 | -86 | -94 | -98 | -93 | -76 | -49 | -14 |
| 30 | 73 | 103 | 126 | 150 | 169 | 182 | 188 | 188 | 193 | 200 | 205 | 197 | 169 | 118 | 54 | -6 | -51 | -90 | -126 |
| -164 | -209 | -236 | -246 | -243 | -218 | -191 | -163 | -128 | -76 | -26 | 0 | 15 | 24 | 27 | 29 | 29 | 30 | 29 | 17 |
| -4 | -24 | -36 | -32 | -8 | 21 | 53 | 83 | 103 | 117 | 124 | 125 | 122 | 110 | 94 | 78 | 63 | 58 | 58 | 57 |
| 49 | 35 | 17 | -2 | -13 | -25 | -41 | -54 | -68 | -75 | -67 | -50 | -30 | -13 | 3 | 11 | 14 | 13 | 7 | 3 |
| 2 | -5 | -15 | -20 | -20 | -20 | -17 | -11 | 0 | 10 | 18 | 18 | 9 | 0 | -7 | -19 | -39 | -57 | -64 | -63 |
| -58 | -48 | -33 | -10 | 11 | 31 | 57 | 74 | 77 | 76 | 76 | 75 | 70 | 61 | 52 | 43 | 35 | 29 | 26 | 22 |
| 16 | 10 | 2 | -11 | -30 | -44 | -53 | -60 | -71 | -81 | -85 | -85 | -81 | -69 | -50 | -36 | -31 | -28 | -27 | -28 |
| -29 | -30 | -34 | -39 | -44 | -48 | -47 | -35 | -21 | -7 | 5 | 15 | 23 | 28 | 36 | 42 | 44 | 45 | 46 | 45 |
| 47 | 51 | 55 | 57 | 57 | 57 | 56 | 52 | 44 | 35 | 30 | 26 | 21 | 7 | -9 | -21 | -32 | -35 | -36 | -40 |
| -48 | -58 | -66 | -73 | -78 | -79 | -76 | -70 | -64 | -59 | -53 | -45 | -35 | -25 | -13 | 0 | 12 | 23 | 31 | 35 |
| 38 | 39 | 39 | 38 | 36 | 31 | 25 | 18 | 10 | 1 | -6 | -12 | -14 | -11 | -5 | 2 | 12 | 26 | 43 | 56 |
| 62 | 67 | 70 | 71 | 71 | 70 | 66 | 60 | 52 | 44 | 31 | 18 | 10 | -4 | -28 | -52 | -64 | -70 | -76 | -83 |
| -88 | -93 | -94 | -87 | -79 | -69 | -54 | -41 | -27 | -15 | -4 | 9 | 21 | 30 | 41 | 52 | 60 | 66 | 67 | 66 |
| 65 | 60 | 53 | 44 | 37 | 27 | 15 | 7 | 1 | -5 | -10 | -13 | -12 | -10 | -6 | 1 | 9 | 17 | 24 | 31 |
| 35 | 36 | 35 | 34 | 30 | 25 | 19 | 13 | 5 | -3 | -10 | -16 | -19 | -20 | -23 | -27 | -28 | -26 | -23 | -20 |
| -17 | -15 | -14 | -13 | -14 | -16 | -19 | -21 | -19 | -14 | -9 | -6 | -2 | 1 | 2 | 3 | 6 | 10 | 16 | 25 |
| 34 | 41 | 46 | 51 | 56 | 61 | 63 | 64 | 63 | 58 | 52 | 46 | 41 | 35 | 29 | 21 | 12 | 4 | -7 | -15 |
| -21 | -28 | -38 | -49 | -56 | -59 | -59 | -58 | -54 | -50 | -46 | -39 | -28 | -17 | -11 | -6 | -2 | 3 | 7 | 10 |
| 11 | 12 | 12 | 10 | 7 | 2 | -1 | -2 | -4 | -6 | -5 | -3 | 1 | 5 | 7 | 7 | 7 | 6 | 7 | 12 |
| 18 | 20 | 20 | 20 | 20 | 16 | 12 | 10 | 11 | 13 | 12 | 9 | 6 | 3 | 2 | 1 | 1 | 0 | -3 | -5 |
| -5 | -7 | -12 | -15 | -16 | -19 | -21 | -22 | -24 | -27 | -29 | -30 | -31 | -30 | -27 | -23 | -20 | -18 | -16 | -12 |
| -8 | -5 | -2 | 2 | 5 | 8 | 9 | 10 | 11 | 12 | 13 | 15 | 16 | 16 | 17 | 18 | 20 | 21 | 22 | 21 |
| 20 | 19 | 18 | 14 | 8 | 4 | 0 | -2 | 0 | 0 | -3 | -7 | -13 | -19 | -22 | -21 | -18 | -16 | -15 | -17 |
| -20 | -23 | -27 | -30 | -30 | -28 | -25 | -22 | -22 | -23 | -25 | -27 | -27 | -24 | -19 | -15 | -8 | 0 | 1 | 1 |
| 4 | 9 | 13 | 15 | 13 | 11 | 11 | 11 | 9 | 8 | 10 | 12 | 15 | 18 | 19 | 20 | 20 | 19 | 17 | 14 |
| 9 | 7 | 6 | 3 | 0 | -3 | -3 | -3 | -5 | -8 | -9 | -9 | -10 | -12 | -15 | -18 | -23 | -27 | -28 | -27 |
| -25 | -20 | -17 | -13 | -11 | -11 | -13 | -12 | -5 | 1 | 4 | 7 | 10 | 12 | 15 | 13 | 8 | 5 | 5 | 7 |
| 8 | 5 | 5 | 1 | -2 | -5 | -8 | -9 | -11 | -12 | -12 | -11 | -11 | -13 | -17 | -18 | -16 | -12 | -12 | -11 |
| -9 | -8 | -8 | -10 | -11 | -9 | -6 | -2 | 2 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 5 | 2 |
| -1 | -3 | -5 | -6 | -7 | -8 | -8 | -7 | -6 | -4 | -2 | 1 | 1 | -2 | -5 | -7 | -7 | -7 | -7 | -6 |
| -5 | -4 | -5 | -6 | -5 | -2 | 0 | 3 | 5 | 7 | 9 | 11 | 13 | 13 | 12 | 9 | 7 | 4 | 2 | -1 |
| -4 | -8 | -10 | -11 | -14 | -17 | -18 | -19 | -19 | -18 | -18 | -18 | -18 | -17 | -15 | -13 | -11 | -9 | -8 | -6 |
| -4 | -2 | 1 | 4 | 7 | 11 | 14 | 15 | 14 | 12 | 10 | 8 | 7 | 7 | 7 | 7 | 5 | 2 | 0 | -2 |
| -3 | -4 | -5 | -6 | -6 | -5 | -5 | -2 | -2 | -2 | -4 | -6 | -6 | -3 | 0 | 2 | 5 | 8 | 10 | 13 |
| 17 | 19 | 18 | 14 | 12 | 10 | 8 | 7 | 6 | 4 | 2 | 0 | -1 | -1 | -1 | -1 | -2 | -5 | -6 | -6 |
| -6 | -7 | -7 | -7 | -7 | -4 | -2 | 0 | 2 | 3 | 5 | 8 | 10 | 12 | 14 | 15 | 16 | 17 | 18 | 18 |
| 16 | 12 | 10 | 12 | 13 | 14 | 15 | 17 | 17 | 17 | 17 | 17 | 17 | 18 | 19 | 19 | 20 | 20 | 20 | 20 |
| 19 | 17 | 16 | 13 | 11 | 8 | 5 | 3 | -2 | -7 | -12 | -14 | -14 | -14 | -14 | -14 | -13 | -12 | -11 | -10 |
| -9 | -7 | -6 | -5 | -3 | 0 | 1 | 1 | 2 | 3 | 4 | 6 | 8 | 10 | 10 | 9 | 8 | 8 | 8 | 9 |
| 11 | 11 | 10 | 8 | 7 | 5 | 4 | 3 | 1 | -1 | -3 | -5 | -7 | -10 | -13 | -15 | -16 | -16 | -16 | -15 |
| -15 | -15 | -15 | -14 | -12 | -9 | -6 | -4 | -3 | -3 | -1 | 1 | 2 | 2 | 2 | 4 | 4 | 5 | 5 | 8 |
| 9 | 9 | 8 | 6 | 4 | 2 | -1 | -2 | -1 | 0 | 0 | 0 | 1 | 3 | 3 | 4 | 5 | 5 | 4 | 3 |

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|---|---|---|----|----|----|----|----|----|----|----|-----|----|-----|----|-----|----|----|----|----|----|----|---|----|
| 10 | -1 | 6 | 4 | 5 | 3 | -2 | -3 | 3 | 1 | -1 | 3 | 2 | -6 | 3 | -6 | 1 | -11 | -2 | 0 | 0 | 3 | 0 | 1 | 1 | 1 |
| 9 | -3 | 4 | 6 | 4 | 2 | -1 | -2 | 4 | 4 | 1 | -1 | 2 | -6 | 2 | -7 | 0 | -10 | -6 | 1 | 0 | 3 | 0 | 1 | 1 | 0 |
| 8 | -4 | 3 | 7 | 3 | 1 | 1 | -2 | 4 | 0 | -1 | 2 | 2 | -7 | -2 | -8 | 1 | 1 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | -1 |
| 6 | -4 | 3 | 7 | 2 | 1 | 1 | -1 | 4 | -2 | -1 | 2 | 2 | -7 | -3 | -7 | 0 | 0 | 0 | -1 | 1 | 1 | 1 | 2 | 2 | -2 |
| 5 | -5 | 3 | 6 | 1 | 0 | 2 | -2 | 5 | -3 | 1 | 2 | 2 | -8 | -3 | -6 | 0 | 0 | 0 | -1 | 1 | 1 | 2 | 2 | 2 | -4 |
| 5 | -5 | 4 | 6 | 1 | -2 | 2 | -4 | 4 | -5 | 2 | 2 | 2 | -8 | -3 | -7 | 0 | -1 | -2 | 1 | 1 | 1 | 2 | 2 | 1 | -6 |
| 5 | -5 | 4 | 6 | 1 | -4 | 2 | -5 | 1 | -6 | 3 | 2 | 2 | -8 | -3 | -10 | 0 | 0 | -1 | -1 | 1 | 1 | 2 | 2 | 1 | -8 |
| 5 | -6 | 4 | 6 | 1 | -6 | 2 | -5 | -1 | -8 | 4 | 2 | 2 | -8 | -3 | -9 | -1 | 0 | -2 | 0 | 1 | 1 | 2 | 2 | 1 | -9 |
| 5 | -6 | 4 | 6 | 2 | -7 | 2 | -3 | -2 | -9 | 5 | 1 | 1 | -8 | -3 | -8 | -1 | 0 | -2 | 2 | 1 | 1 | 2 | 2 | 1 | -8 |
| 5 | -5 | 2 | 6 | 2 | -8 | 1 | -2 | -1 | -8 | 6 | 1 | 1 | -7 | -3 | -6 | -1 | 0 | -2 | 2 | 2 | 2 | 2 | 2 | 2 | -4 |
| 5 | -3 | 1 | 6 | 4 | -7 | 0 | -1 | -1 | -6 | 7 | -4 | -4 | -5 | -3 | -6 | -3 | -1 | -1 | 0 | 1 | 1 | 0 | 1 | 1 | -4 |
| 5 | -2 | 1 | 6 | 5 | -6 | -1 | -1 | -2 | -4 | 8 | -5 | -4 | -3 | -3 | -6 | -2 | -1 | 2 | 0 | -1 | -3 | -3 | -3 | 8 | |
| 5 | -1 | 1 | 6 | 4 | -4 | -1 | -1 | -4 | -3 | 8 | -6 | -1 | -3 | -5 | -1 | -1 | 2 | 0 | -2 | -2 | -2 | -2 | 0 | 9 | |
| 5 | -1 | 1 | 6 | 3 | -3 | -1 | -1 | -3 | -1 | 9 | -6 | 0 | -4 | -4 | 0 | -1 | 3 | 0 | -2 | -2 | -2 | -2 | 2 | 2 | |
| 5 | 0 | 1 | 6 | 3 | -2 | -1 | 0 | 0 | 0 | 8 | -6 | 1 | -8 | -4 | 0 | -1 | 3 | 0 | -2 | -2 | -2 | -2 | 3 | 3 | |
| 5 | 2 | 1 | 6 | 4 | -1 | -2 | 1 | 2 | 1 | 7 | -6 | 2 | -3 | -1 | -1 | -1 | 3 | 0 | -2 | -1 | -1 | -1 | 3 | 3 | |
| 5 | 3 | 1 | 6 | 5 | 0 | -3 | 2 | 3 | 3 | 7 | -6 | 2 | -9 | -5 | 1 | -1 | 3 | 0 | -2 | 0 | -2 | 0 | 3 | 3 | |
| 4 | 4 | 1 | 6 | 4 | -1 | -3 | 2 | 2 | 2 | 5 | -6 | 2 | -11 | -6 | 2 | 2 | 0 | 3 | 0 | -1 | 0 | -1 | 3 | 3 | |
| 1 | 5 | 3 | 6 | 4 | -2 | -3 | 3 | 2 | 0 | 4 | -6 | 2 | -12 | -6 | 2 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| -1 | -1 | -1 | -1 | -1 | -2 | -3 | -5 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -5 | -5 | -5 | -5 | -5 | -5 |
| -5 | -6 | -6 | -6 | -6 | -6 | -5 | -4 | -3 | -3 | -3 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | -1 | -1 | -1 | -1 | -1 | -1 |
| 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 |
| -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 2 | 2 | 2 | 2 | 2 | 2 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 2 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 5 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 1 | 1 |
| -1 | -2 | -2 | -2 | -2 | -2 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | 2 | 2 | 2 | 2 | 2 | 2 |
| -4 | -5 | -5 | -5 | -5 | -5 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -2 | -2 | -2 | -2 | -2 | -2 |
| -4 | -4 | -4 | -4 | -4 | -4 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -5 | -5 | -5 | -5 | -5 | -5 |
| -2 | -2 | -2 | -2 | -2 | -2 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | 3 | 3 | 3 | 3 | 3 | 3 |
| -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| -8 | -8 | -8 | -8 | -8 | -8 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -7 | -7 | -7 | -7 | -7 | -7 |
| -8 | -8 | -8 | -8 | -8 | -8 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -11 | -11 | -11 | -11 | -11 | -11 |
| -8 | -8 | -8 | -8 | -8 | -8 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -8 | -8 | -8 | -8 | -8 | -8 |

IIV323 57.015.0 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST EPICENTER - 37 39 OON, 122 27 OOW
 STATION NO. 65 ALEXANDER BLDG., BSMT, SAN FRANCISCO, CAL COMP N81F 37 47 OON, 122 24 OOW
 INSTR PERIOD = 0.064 SEC DAMPING = 0.552 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -15.7 CM/SEC/SEC AT 0.04 SEC VELO = -0.8 CM/SEC AT 0.10 SEC DISP = -0.3 CM AT 21.70 SEC

INITIAL VELO = 0.19823 CM/SEC INITIAL DISP = -0.03567 CM

1138 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -49 | -128 | -157 | -132 | -70 | 6 | 56 | 80 | 98 | 106 | 92 | 61 | 20 | -23 | -54 | -55 | -33 | -9 | 10 | 25 |
| 35 | 37 | 35 | 35 | 30 | 13 | -17 | -36 | -31 | -20 | -19 | -20 | -19 | -15 | -8 | -2 | -5 | -13 | -11 | -2 |
| 9 | 20 | 34 | 55 | 63 | 36 | 3 | -16 | -28 | -37 | -40 | -36 | -30 | -22 | -11 | 0 | 11 | 13 | 14 | 26 |
| 30 | 21 | 5 | -18 | -41 | -55 | -53 | -38 | -15 | 12 | 32 | 40 | 40 | 36 | 27 | 15 | 13 | 21 | 29 | 24 |
| 17 | 17 | 18 | -8 | -47 | -58 | -47 | -27 | -6 | 13 | 27 | 33 | 26 | 12 | -2 | -15 | -29 | -40 | -33 | -16 |
| -1 | 12 | 26 | 30 | 20 | 8 | 2 | 6 | 13 | 19 | 24 | 30 | 33 | 23 | 2 | -12 | -21 | -30 | -35 | -32 |
| -27 | -20 | -7 | 11 | 26 | 39 | 51 | 50 | 31 | 3 | -15 | -25 | -27 | -25 | -22 | -18 | -13 | -6 | 5 | 16 |
| 14 | -5 | -18 | -18 | -16 | -15 | -20 | -30 | -31 | -24 | -15 | -4 | 7 | 18 | 27 | 27 | 20 | 12 | 5 | -3 |
| -11 | -20 | -19 | -9 | 2 | 17 | 26 | 29 | 27 | 21 | 12 | 0 | -13 | -19 | -19 | -20 | -21 | -23 | -21 | -16 |
| -10 | -3 | 3 | 11 | 19 | 19 | 11 | 4 | -2 | -6 | -11 | -14 | -14 | -11 | -7 | -4 | 0 | 4 | 9 | 15 |
| 19 | 15 | 11 | 11 | 14 | 14 | 4 | -13 | -28 | -30 | -22 | -13 | -2 | 6 | 9 | 10 | 11 | 9 | 5 | 2 |
| -1 | -3 | -6 | -9 | -10 | -11 | -12 | -10 | -5 | -1 | 1 | 1 | 0 | -1 | 3 | 8 | 13 | 18 | 21 | 18 |
| 11 | 5 | -2 | -8 | -15 | -18 | -18 | -17 | -16 | -14 | -8 | 0 | 6 | 4 | -2 | -8 | -13 | -12 | -7 | -2 |
| 3 | 8 | 13 | 15 | 8 | -2 | -10 | -15 | -19 | -19 | -12 | -5 | 1 | 5 | 5 | 3 | 2 | 1 | 2 | 4 |
| 6 | 8 | 10 | 12 | 14 | 14 | 10 | 6 | 4 | 3 | -7 | 2 | 11 | -6 | -9 | -12 | -11 | -5 | 1 | 5 |
| 7 | 8 | 6 | 1 | -4 | -7 | -10 | -14 | -16 | -14 | -7 | 2 | 11 | 18 | 15 | 8 | 5 | 4 | 3 | 0 |
| -4 | -4 | 0 | 3 | 5 | 6 | 3 | 0 | -3 | -7 | -12 | -13 | -10 | -5 | 0 | 7 | 11 | 9 | 6 | 3 |
| -2 | -6 | -2 | 3 | 1 | -1 | -1 | 0 | 1 | 2 | 4 | 5 | 7 | 9 | 11 | 12 | 11 | 9 | 7 | 6 |
| 5 | 4 | 4 | 3 | 3 | 1 | 0 | -4 | -12 | -14 | -4 | 4 | 9 | 9 | 6 | 2 | -2 | -6 | -11 | -12 |
| -8 | -4 | 0 | 3 | 4 | 4 | 4 | 4 | -1 | 3 | -1 | -5 | -7 | -3 | 2 | 8 | 12 | 12 | 12 | 12 |
| 10 | 7 | 4 | 5 | 8 | 8 | 6 | 3 | -1 | -2 | -3 | -2 | 1 | 5 | 8 | 8 | 6 | 4 | 1 | -1 |
| -4 | -6 | -7 | -6 | -5 | -3 | 1 | 3 | 3 | -1 | -4 | -6 | -6 | -6 | -5 | -5 | -5 | -6 | -6 | -4 |
| 2 | 8 | 13 | 11 | 4 | -1 | -1 | 3 | 6 | 6 | 3 | 0 | -5 | -11 | -11 | -5 | -2 | -5 | -11 | -13 |
| -5 | 4 | 11 | 12 | 5 | -3 | -8 | -10 | -11 | -9 | -6 | -3 | -2 | -5 | -7 | -5 | -1 | 2 | 0 | -4 |
| -7 | -5 | -1 | -5 | -10 | -6 | 1 | 6 | 7 | 7 | 7 | 7 | 5 | 1 | -3 | -4 | -1 | 3 | 3 | 1 |
| -2 | -5 | -8 | -10 | -9 | -7 | -5 | -3 | -2 | 0 | 1 | -1 | -7 | -10 | -6 | 0 | 2 | 2 | 1 | 1 |
| -1 | -7 | -15 | -16 | -11 | -4 | 2 | 8 | 11 | 8 | 4 | 1 | -2 | -2 | -2 | -2 | -2 | 1 | 5 | 7 |
| 4 | -1 | -3 | 1 | 8 | 9 | 5 | 0 | -3 | -3 | -3 | -4 | -7 | -7 | 0 | 8 | 15 | 16 | 11 | 6 |
| 0 | -5 | -7 | -7 | -6 | -6 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -4 |
| 0 | 5 | 9 | 10 | 12 | 10 | 6 | 1 | 0 | 2 | 5 | 4 | 3 | 0 | -3 | -6 | -6 | -4 | -2 | 1 |
| 4 | 6 | 7 | 9 | 10 | 10 | 8 | 6 | 4 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | -1 | -5 | -7 | -3 |
| 5 | 11 | 10 | 4 | -1 | -1 | 3 | 8 | 13 | 14 | 11 | 7 | 4 | 2 | 2 | 3 | 3 | 4 | 5 | 5 |
| 5 | 4 | 1 | -1 | -3 | -3 | -2 | -1 | 0 | 1 | -1 | -4 | -6 | -9 | -11 | -10 | -8 | -6 | -4 | 0 |
| 3 | 6 | 6 | 6 | 6 | 6 | 5 | 0 | -5 | -7 | -6 | -5 | -3 | 0 | 2 | 4 | 4 | 4 | 4 | 4 |
| 1 | -4 | -6 | -7 | -6 | -5 | -2 | 2 | 4 | 2 | -4 | -9 | -12 | -9 | -5 | -2 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | -1 | -1 | -1 | 0 | 1 | 3 | 5 | 6 | 4 | 2 | 0 |
| -1 | -3 | -5 | -7 | -7 | -5 | -2 | 1 | 3 | 5 | 5 | 2 | 0 | -3 | -5 | -7 | -7 | -4 | 0 | 3 |
| 7 | 10 | 10 | 8 | 7 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 1 | 0 |
| -2 | -3 | -4 | -5 | -6 | -7 | -7 | -4 | 1 | 6 | 10 | 9 | 7 | 4 | 1 | -1 | -4 | -6 | -8 | -10 |
| -8 | -4 | 0 | 0 | -2 | -4 | -5 | -2 | 2 | 5 | 6 | 7 | 9 | 9 | 7 | 5 | 4 | 1 | -3 | -8 |
| -10 | -10 | -9 | -8 | -6 | -2 | 2 | 8 | 12 | 12 | 9 | 7 | 4 | 2 | 0 | -2 | -3 | -5 | -5 | -4 |
| -3 | -2 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 4 | 1 | -2 | -5 | -7 | -7 | -6 | -5 | -3 | -2 | -1 |
| 0 | 1 | 2 | 2 | 3 | 4 | 4 | 2 | 0 | -2 | -3 | -5 | -5 | -4 | -3 | -1 | 0 | 1 | 1 | 0 |
| 0 | -1 | -2 | -3 | -3 | -4 | -4 | -5 | -6 | -6 | -7 | -8 | -8 | -7 | -5 | -3 | -1 | 1 | 3 | 5 |

| | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|
| 6 | 4 | 3 | 1 | 0 | -2 | -3 | -4 | -5 | -6 | -4 | 0 | 3 | 6 | 8 | 10 | 10 | 8 | 5 |
| 2 | 0 | -2 | -4 | -5 | -6 | -7 | -7 | -5 | 0 | 2 | 4 | 3 | 2 | 1 | -2 | -2 | -3 | -2 |
| 4 | 3 | 6 | 9 | 12 | 12 | 8 | -3 | -5 | -6 | -5 | -4 | -4 | 2 | -2 | 0 | 0 | 1 | 3 |
| 4 | 5 | 5 | 4 | 1 | -2 | -4 | -6 | -6 | -4 | -2 | 1 | 4 | 4 | -1 | -7 | -1 | -1 | -8 |
| -6 | -3 | -2 | -3 | -4 | -5 | -5 | -6 | -6 | -2 | 0 | 0 | -10 | -2 | -3 | -4 | -5 | -4 | -2 |
| -2 | 0 | 2 | 3 | 4 | 5 | 6 | 6 | 3 | -1 | -7 | -10 | -10 | -8 | -7 | -6 | -4 | -3 | -2 |
| -1 | -1 | -1 | -2 | -4 | -5 | -4 | -4 | -3 | -2 | -1 | 1 | 2 | 3 | 4 | 5 | 7 | 7 | 6 |
| 4 | 3 | 4 | 4 | -1 | 0 | 2 | 3 | 5 | 6 | 4 | 3 | 1 | 0 | -1 | 0 | 1 | 2 | 3 |
| 5 | 5 | 5 | 6 | 6 | 5 | 3 | 2 | 1 | -2 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 4 | 4 |
| 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | -5 | -6 | -5 | -4 | -3 | -1 | 0 | 2 | 3 | 2 |
| 2 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 7 | 7 | 7 | 6 | 5 | 5 | 4 | 3 | 3 | 3 | 2 |
| 0 | -2 | -3 | 4 | 4 | 4 | 4 | 5 | 7 | 8 | 8 | 9 | 9 | 9 | 8 | 6 | 5 | 3 | 2 |
| 2 | -1 | -3 | -2 | 0 | 2 | 4 | 5 | 7 | 9 | 9 | 7 | 6 | 5 | 4 | 3 | 3 | 3 | 2 |

[illegible]

IIV323 57.015.0 STATION NO. 65
 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
 ALEXANDER BLDG., BSMT, SAN FRANCISCO, CAL
 DAMPING = 0.528
 INSTR PERIOD = 0.063 SEC
 ACCLN = -5.8 CM/SEC AT 1.14 SEC
 VELO = -0.9 CM/SEC AT 0.02 SEC
 DISP = -0.9 CM AT 11.24 SEC
 EPICENTER - 37 39 00N, 122 27 00W
 COMP UP 37 47 00N, 122 24 00W
 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS
 INITIAL VELO = -0.85277 CM/SEC
 INITIAL DISP = -0.27642 CM

1140 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -29 | 2 | 27 | 39 | 34 | 21 | 11 | 13 | 22 | 30 | 30 | 15 | -5 | -16 | 1 | 37 | 54 | 41 | 12 | -6 |
| -10 | -20 | -24 | -8 | 1 | -7 | -5 | 12 | 33 | 38 | 22 | 8 | 10 | 12 | 1 | -11 | -10 | 1 | 11 | 17 |
| 21 | 25 | 30 | 28 | 12 | -1 | -6 | -9 | -12 | -4 | 20 | 40 | 43 | 32 | 7 | -25 | -49 | -58 | -55 | -39 |
| -15 | 6 | 21 | 29 | 32 | 34 | 28 | 13 | -1 | -14 | -27 | -25 | -8 | 13 | 23 | 26 | 15 | 7 | 8 | |
| 6 | -3 | -9 | -4 | 5 | 12 | 16 | 14 | 7 | -3 | -11 | -14 | -10 | -3 | -1 | -2 | 3 | 13 | 21 | |
| 10 | -1 | -8 | -10 | -7 | 0 | 7 | 4 | -6 | -7 | -2 | -2 | -7 | -4 | 6 | 15 | 21 | 15 | -1 | |
| -6 | 2 | 1 | -8 | -17 | -22 | -16 | -10 | -8 | -9 | -11 | -6 | 6 | 18 | 21 | 19 | 15 | 11 | 5 | |
| -15 | -23 | -18 | -8 | 0 | 6 | 6 | 0 | -3 | -2 | 1 | 3 | 7 | 8 | 4 | 1 | 2 | 0 | -4 | |
| -21 | -15 | -8 | -2 | 4 | 7 | 7 | -3 | 9 | 19 | 14 | 0 | -10 | -11 | -1 | 8 | 14 | 21 | 6 | |
| -9 | -18 | -13 | -6 | -6 | -8 | -5 | 0 | 4 | 2 | -3 | -9 | -11 | -11 | -11 | -11 | -9 | -7 | 1 | |
| 8 | 11 | 4 | -8 | -14 | -18 | -13 | 1 | 13 | 19 | 16 | 10 | 4 | -2 | -11 | -19 | -15 | -5 | 0 | |
| 12 | 22 | 21 | 3 | -5 | -5 | -10 | -17 | -20 | -14 | -4 | 4 | 11 | 16 | 11 | 2 | -7 | -15 | -20 | |
| -10 | -3 | 3 | 6 | 8 | 6 | 0 | -6 | -10 | -12 | -12 | -7 | -1 | 5 | 8 | 6 | 1 | -3 | -8 | |
| -13 | -9 | -5 | -2 | 0 | 2 | 1 | -3 | -8 | -9 | -11 | -9 | -7 | -4 | 0 | 4 | 9 | 11 | 4 | |
| -6 | -4 | -2 | -8 | -6 | -5 | -3 | -2 | -6 | -9 | -6 | -2 | -1 | -2 | 2 | 6 | 4 | -1 | -6 | |
| -7 | -12 | -14 | -10 | -2 | -3 | -1 | -1 | -3 | -1 | 1 | -4 | 0 | -9 | -2 | 5 | 11 | 10 | 5 | |
| 9 | 3 | -3 | -7 | -8 | -10 | -10 | -8 | -6 | 8 | 1 | -4 | 1 | 5 | 1 | -6 | -8 | -5 | 1 | |
| -5 | -6 | -2 | 4 | 9 | 9 | 5 | 1 | -2 | -4 | -5 | -3 | 0 | 2 | -2 | 0 | 1 | 1 | -1 | |
| -1 | 1 | -1 | -4 | -6 | -7 | -4 | -1 | 0 | -2 | -3 | -4 | -1 | 3 | -1 | -6 | -5 | 0 | -5 | |
| 8 | 8 | 4 | 0 | -2 | 0 | 5 | 6 | 0 | 2 | 8 | 5 | -1 | -3 | -3 | -3 | -2 | -2 | -1 | |
| -4 | -5 | -3 | 0 | 3 | -4 | -1 | -4 | -5 | -5 | -4 | -2 | -1 | -1 | 0 | -4 | -6 | -6 | -2 | |
| 2 | 7 | -1 | -6 | -1 | -4 | 7 | 8 | 6 | 2 | 5 | 0 | -4 | 1 | 2 | 4 | 6 | 8 | 11 | |
| 0 | 3 | 5 | 5 | 4 | 4 | 4 | 3 | 3 | 2 | -3 | -6 | -4 | 1 | 3 | 2 | -1 | -3 | -2 | |
| 9 | 5 | 0 | -2 | -2 | -2 | -1 | -1 | 0 | 1 | 2 | 1 | -4 | -8 | -5 | 1 | 6 | 10 | 7 | |
| 2 | 1 | 0 | 3 | 6 | 8 | 7 | 5 | 4 | 2 | 0 | -2 | -4 | -5 | -4 | -2 | 1 | 3 | 8 | |
| 4 | 8 | 2 | -3 | -3 | -3 | -3 | -2 | 1 | 5 | 11 | 11 | 3 | -1 | -3 | -3 | 2 | 8 | 5 | |
| 15 | 8 | 9 | 7 | 1 | -2 | -4 | -6 | -5 | -2 | 0 | 2 | 4 | 5 | 4 | 2 | 2 | 0 | 3 | |
| 5 | 8 | 9 | 7 | 1 | -2 | -4 | -6 | -5 | -2 | 0 | 2 | 4 | 5 | 4 | 2 | 2 | 2 | 4 | |
| 4 | 4 | 4 | 7 | 10 | 9 | 6 | 3 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 1 | |
| 0 | -1 | 0 | 3 | 8 | 9 | 9 | 7 | 4 | 0 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | -3 | |
| -3 | -3 | -3 | -2 | -1 | 0 | 2 | 3 | 2 | -1 | -1 | 0 | -5 | -4 | -2 | 5 | 9 | 10 | 6 | |
| 3 | 0 | -4 | -6 | -4 | -1 | 2 | 4 | 6 | 7 | -5 | -6 | 4 | 2 | -1 | -2 | -2 | -1 | 0 | |
| 2 | 2 | 0 | -3 | -7 | -8 | -4 | 1 | 6 | 7 | 8 | 4 | 4 | -2 | -6 | -9 | -7 | -5 | -3 | |
| -1 | 0 | 0 | -1 | -1 | -2 | -4 | -3 | -2 | -1 | 6 | 4 | 2 | -2 | -1 | -4 | -7 | -10 | -8 | |
| -2 | 4 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 1 | |
| -1 | -4 | -6 | -7 | -3 | 1 | 5 | 6 | 5 | 3 | 1 | -1 | -3 | 3 | -2 | -2 | -1 | -1 | 0 | |
| -5 | -5 | -5 | -5 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -5 | -5 | -5 | -4 | -4 | -4 | -4 | -4 | |
| -2 | -2 | -1 | -1 | -1 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 3 | 2 | |
| -1 | -2 | -3 | -5 | -6 | -7 | -9 | -9 | -9 | -8 | -6 | -5 | -4 | -3 | -2 | -1 | 1 | 2 | 3 | |
| 2 | 0 | -2 | -3 | -5 | -6 | -6 | -4 | -3 | -1 | 0 | 0 | 3 | 3 | 3 | 2 | 1 | 0 | -1 | |
| -2 | -3 | -4 | -4 | -4 | -3 | -3 | -2 | -2 | -1 | -1 | -1 | -2 | -2 | -2 | -2 | -3 | -4 | -2 | |

[illegible]

| | | | | | | | |
|----------------|--------------|----------------------------|------------------------------------|------------|-------------|------------|--------------------|
| IIV324 | 57.016.0 | SAN FRANCISCO EARTHQUAKE | MAR 22, 1957 | - 1515 PST | EPICENTER - | 37 39 00N, | 122 27 00W |
| STATION NO. | 66 | ALEXANDER BLDG., 11TH FL., | SAN FRANCISCO, CAL. | | COMP N81E | 37 47 00N, | 122 24 00W |
| INSTR PERIOD = | 0.046 SEC | DAMPING = 0.552 | ACCELEROGRAM IS BAND-PASS FILTERED | | BETWEEN | 0.070 AND | 25 CYC/SEC. |
| PEAK VALS | ACLN = -11.5 | CM/SEC/SEC AT | 1.10 SEC | VELD = | 2.6 | CM/SEC AT | 0.10 SEC |
| | | | | | | DISP = | 1.9 CM AT 1.64 SEC |

| 784 | INSTRUMENT AND BASELINE CORRECTED DATA | IN | MM/SEC/SEC | AT EQUALLY-SPACED INTERVALS OF | 0.02 | SEC. |
|-----|--|----|------------|--------------------------------|----------|------|
| | | | | | 0.002002 | CM |

IIV325 57.017.0 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST EPICENTER - 37 39 OON, 122 27 OOW
STATION NO. 67 ALEXANDER BLDG., 16TH FL., SAN FRANCISCO, CAL. COMP SOLE 37 47 OON, 122 24 OOW
INSTR PERIOD = 0.046 SEC DAMPING = 0.643 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -35.8 CM/SEC/SEC AT 0.28 SEC VELO = -2.4 CM/SEC AT 0.36 SEC DISP = 2.3 CM AT 12.04 SEC

INITIAL VELO = 0.59892 CM/SEC INITIAL DISP = 0.20485 CM

1543 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| 64 | 98 | 123 | 144 | 150 | 135 | 91 | 45 | -26 | -114 | -195 | -267 | -321 | -350 | -358 | -315 | -244 | -136 | -13 | 97 |
| 170 | 226 | 253 | 261 | 241 | 214 | 172 | 104 | 42 | -12 | -64 | -114 | -158 | -182 | -175 | -137 | -94 | -47 | -12 | 19 |
| 46 | 70 | 89 | 106 | 121 | 134 | 141 | 143 | 142 | 124 | 97 | 67 | 31 | -12 | -62 | -117 | -175 | -221 | -246 | -213 |
| -161 | -114 | -49 | 29 | 80 | 100 | 105 | 80 | 61 | 46 | 31 | 18 | 10 | 11 | 10 | 5 | -2 | -4 | -5 | -15 |
| -35 | -59 | -74 | -67 | -46 | -11 | 10 | 25 | 33 | 33 | 20 | -1 | -18 | -35 | -51 | -60 | -65 | -69 | -56 | -32 |
| -11 | 12 | 39 | 72 | 107 | 136 | 148 | 147 | 133 | 112 | 85 | 59 | 30 | -3 | -33 | -57 | -73 | -87 | -101 | -114 |
| -121 | -112 | -83 | -37 | -9 | 17 | 50 | 78 | 100 | 113 | 100 | 77 | 51 | 20 | -13 | -44 | -68 | -84 | -99 | -104 |
| -92 | -78 | -58 | -34 | -6 | 17 | 32 | 44 | 46 | 42 | 79 | 70 | 60 | 51 | -19 | -32 | -44 | -51 | -58 | -66 |
| -72 | -62 | -28 | 1 | 23 | 45 | 63 | 78 | 82 | 80 | 34 | 25 | 13 | 2 | -9 | 34 | 25 | 13 | 2 | -9 |
| -19 | -29 | -39 | -48 | -47 | -38 | -24 | -6 | 7 | 17 | 27 | 37 | 43 | 44 | 31 | 9 | -9 | -26 | -41 | -55 |
| -67 | -66 | -48 | -31 | -16 | 1 | 20 | 36 | 41 | 32 | 12 | -9 | -27 | -42 | -53 | -60 | -53 | -42 | -29 | -13 |
| 1 | 10 | 8 | -11 | -27 | -37 | -46 | -54 | -59 | -58 | -48 | -38 | -22 | -7 | 6 | 17 | 34 | 54 | 62 | 59 |
| 57 | 49 | 37 | 27 | 20 | 14 | 8 | 2 | -4 | -5 | -5 | -5 | -4 | -4 | -2 | 0 | 1 | 1 | 1 | 2 |
| 2 | 6 | 15 | 21 | 28 | 36 | 36 | 19 | 1 | -11 | -20 | -31 | -41 | -43 | -37 | -34 | -30 | -26 | -23 | -22 |
| -19 | -15 | -7 | -1 | -1 | -3 | 0 | 2 | 0 | -3 | -9 | -15 | -22 | -29 | -32 | -31 | -28 | -17 | -6 | 7 |
| 20 | 32 | 44 | 54 | 62 | 60 | 42 | 26 | 17 | 9 | 2 | -3 | -4 | -1 | 0 | 1 | 3 | 4 | 5 | 5 |
| 5 | 7 | 14 | 24 | 36 | 56 | 67 | 58 | 48 | 35 | 23 | 9 | -4 | -20 | -39 | -53 | -56 | -55 | -48 | -35 |
| -23 | -11 | -3 | 2 | 7 | 13 | 20 | 25 | 27 | 29 | 29 | 28 | 21 | 11 | -1 | -16 | -31 | -45 | -51 | -51 |
| -52 | -43 | -29 | -14 | 3 | 22 | 45 | 67 | 78 | 82 | 68 | 46 | 34 | 23 | 14 | 5 | -2 | -7 | -9 | -6 |
| -2 | 6 | 15 | 24 | 35 | 45 | 52 | 57 | 60 | 57 | 53 | 47 | 39 | 28 | 13 | 1 | -8 | -11 | -8 | -7 |
| -6 | -4 | -2 | -2 | -1 | 1 | 5 | 11 | 18 | 21 | 23 | 24 | 22 | 14 | 4 | -2 | -8 | -18 | -28 | -34 |
| -34 | -30 | -23 | -15 | -6 | 2 | 6 | 9 | 11 | 14 | 13 | 8 | 0 | -2 | -5 | -10 | -11 | -10 | -7 | 0 |
| 7 | 13 | 16 | 19 | 23 | 29 | 34 | 41 | 48 | 54 | 59 | 59 | 49 | 36 | 25 | 14 | 5 | 4 | 6 | 7 |
| 6 | 3 | 0 | -6 | -12 | -16 | -15 | -13 | -13 | -15 | -17 | -19 | -20 | -22 | -24 | -26 | -28 | -28 | -28 | -29 |
| -31 | -30 | -22 | -14 | -14 | -17 | -14 | -10 | -7 | -6 | 0 | 7 | 10 | 11 | 7 | 4 | 1 | 2 | 2 | 3 |
| 5 | 6 | 6 | 5 | 3 | 2 | 2 | 2 | 2 | 5 | 9 | 11 | 8 | 4 | 1 | -2 | -5 | -7 | -3 | 0 |
| 1 | -1 | -5 | -6 | -2 | 2 | 1 | -2 | -6 | -10 | -16 | -24 | -27 | -26 | -24 | -23 | -24 | -25 | -22 | -18 |
| -16 | -17 | -16 | -17 | -16 | -16 | -16 | -17 | -19 | -21 | -23 | -25 | -25 | -25 | -25 | -25 | -24 | -21 | -12 | -1 |
| 7 | 14 | 21 | 27 | 28 | 23 | 21 | 20 | 20 | 17 | 12 | 7 | 6 | 5 | 3 | 1 | 1 | 0 | -3 | -3 |
| -7 | -10 | -13 | -15 | -17 | -17 | -14 | -9 | -5 | -2 | 1 | 6 | 10 | 10 | 7 | -1 | -20 | -32 | -27 | -25 |
| -30 | -37 | -35 | -31 | -24 | -18 | -18 | -18 | -15 | -10 | -9 | -11 | -13 | -13 | -12 | -12 | -12 | -12 | -12 | -11 |
| -11 | -9 | -7 | -6 | -5 | -5 | -2 | 2 | 5 | 6 | 6 | 8 | 13 | 14 | 10 | 6 | 2 | -2 | -3 | -2 |
| -3 | -4 | -6 | -7 | -6 | -5 | -1 | 2 | 4 | 3 | 1 | 1 | 3 | 5 | 5 | 1 | -2 | -6 | -9 | -12 |
| -15 | -17 | -19 | -20 | -20 | -17 | -13 | -13 | -18 | -20 | -20 | -20 | -17 | -14 | -11 | -10 | -9 | -8 | -6 | -5 |
| -9 | -15 | -18 | -14 | -10 | -7 | -5 | -3 | -1 | 1 | 3 | 5 | 8 | 10 | 8 | 5 | 3 | 2 | 3 | 4 |
| 6 | 6 | 1 | -5 | -7 | -7 | -6 | -3 | -8 | 8 | 9 | 9 | 12 | 14 | 13 | 11 | 10 | 9 | 7 | 3 |
| -4 | -10 | -13 | -14 | -13 | -11 | -9 | -8 | -10 | -14 | -18 | -17 | -15 | -12 | -6 | 1 | -3 | -9 | -6 | -2 |
| -4 | -9 | -13 | -12 | -6 | -5 | -4 | -1 | 0 | 0 | 0 | 2 | 6 | 10 | 11 | 11 | 11 | 10 | 8 | 4 |
| 2 | 2 | 1 | -2 | -3 | -2 | -2 | -2 | -2 | 1 | 9 | 12 | 10 | 9 | 9 | 11 | 13 | 14 | 16 | 17 |
| 10 | 6 | 8 | 5 | 1 | 5 | 9 | 8 | 3 | 1 | 1 | 3 | 8 | 13 | 15 | 15 | 11 | 9 | 10 | 12 |
| 10 | 7 | 1 | -2 | 0 | 3 | 7 | 5 | -2 | 2 | 13 | 16 | 15 | 14 | 11 | 10 | 10 | 10 | 6 | 1 |
| 0 | 0 | -1 | -3 | -5 | -7 | -7 | -1 | 4 | 9 | 13 | 14 | 9 | 6 | 9 | 10 | 11 | 11 | 11 | 8 |
| 0 | -5 | -3 | 0 | 4 | 0 | -6 | -5 | 4 | 9 | 5 | 0 | 0 | 2 | 7 | 10 | 9 | 9 | 9 | 7 |
| 6 | 10 | 13 | 8 | 5 | 7 | 9 | 9 | 6 | 0 | -4 | -1 | 4 | 4 | 5 | 8 | 10 | 10 | 8 | 6 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5 | 4 | -1 | -7 | -10 | -9 | -6 | -5 | -5 | -5 | -3 | -1 | 3 | 4 | 2 | 2 | 7 | 10 | 10 | 9 |
| 7 | 8 | 11 | 9 | 3 | 5 | 8 | 4 | 2 | 10 | 7 | 11 | 15 | 14 | 12 | 9 | 7 | 9 | 13 | 14 |
| 13 | 9 | 5 | 3 | 2 | 4 | 7 | 9 | 10 | 11 | 11 | 4 | 2 | 5 | 11 | 12 | 11 | 11 | 11 | 10 |
| 10 | 6 | 6 | 9 | 14 | 10 | 6 | 10 | 11 | 11 | 11 | 11 | 11 | 12 | 18 | 24 | 24 | 21 | 18 | 10 |
| 12 | 8 | 6 | 7 | 8 | 19 | 11 | 19 | 17 | 17 | 14 | 11 | 6 | 5 | 9 | 13 | 15 | 16 | 16 | 13 |
| 12 | 12 | 10 | 3 | -5 | -3 | -4 | -3 | -1 | -1 | 3 | -3 | -11 | -9 | -7 | -3 | 2 | 5 | 5 | 5 |
| 5 | 4 | 4 | 4 | 2 | -16 | -14 | -16 | -16 | -16 | -16 | -12 | -9 | -11 | -15 | -13 | -3 | 6 | 4 | -2 |
| -4 | -6 | -5 | -3 | -2 | -2 | -2 | -2 | -2 | -2 | -3 | -5 | -6 | -7 | -6 | -6 | -6 | -6 | -5 | -3 |
| -2 | -1 | -1 | -1 | 1 | -16 | -4 | -11 | -16 | -16 | -15 | -15 | -13 | -12 | -11 | -12 | -14 | -12 | -10 | -10 |
| -10 | -10 | -11 | -13 | -13 | -8 | -7 | -8 | -4 | -4 | 1 | 4 | -1 | -6 | -5 | 0 | 1 | -2 | -3 | -2 |
| -1 | 1 | 2 | 2 | 1 | 1 | -2 | -1 | 0 | 0 | 1 | -4 | -7 | -8 | -10 | -8 | -7 | -11 | -11 | -11 |
| -9 | -7 | -8 | -5 | 12 | 10 | 10 | 0 | 0 | 0 | 0 | -3 | -8 | -10 | -9 | -5 | -2 | -2 | -3 | 3 |
| 8 | 4 | -1 | -3 | -6 | -9 | -13 | -9 | -6 | -6 | -5 | -6 | -8 | -10 | -10 | -11 | -14 | -18 | -12 | 0 |
| 6 | 7 | 0 | -1 | 7 | 7 | 10 | 7 | 2 | 2 | -3 | -6 | -8 | -10 | -7 | -5 | -5 | -4 | -4 | -2 |
| 0 | 0 | -2 | -3 | 13 | 13 | 10 | 1 | -1 | -1 | -8 | -15 | -19 | -23 | -22 | -19 | -14 | -7 | -3 | -1 |
| -1 | -8 | -15 | -20 | -22 | -13 | -1 | -1 | -3 | -3 | -5 | -9 | -13 | -15 | -13 | -11 | -7 | -4 | -1 | -3 |
| -5 | -6 | -6 | -6 | -6 | -8 | -10 | -9 | -7 | -7 | -10 | -17 | -19 | -14 | -9 | -6 | -2 | -1 | 0 | 0 |
| 0 | 0 | 0 | 0 | -1 | -5 | -8 | -9 | -9 | -9 | -19 | -9 | -9 | -7 | -5 | -6 | -11 | -12 | -10 | -7 |
| -3 | 0 | 0 | -5 | 0 | 0 | 2 | -4 | -14 | -14 | -19 | -20 | -18 | -13 | -7 | -2 | 3 | 8 | 11 | 12 |
| 12 | 12 | 10 | 9 | 7 | -6 | 0 | -9 | -9 | -9 | -19 | -9 | -9 | -7 | -7 | -2 | 7 | 11 | 15 | 18 |
| 22 | 22 | 18 | 14 | 12 | -4 | 6 | 7 | 10 | 10 | 2 | 7 | 13 | 7 | -2 | -8 | -13 | -14 | -14 | -11 |
| -2 | 5 | 7 | 6 | 4 | 2 | 2 | 2 | 2 | 2 | 12 | 13 | 13 | 7 | -2 | -2 | -14 | -2 | -2 | -2 |
| -1 | 1 | 3 | 7 | 16 | 2 | -3 | -5 | 8 | 8 | 11 | -2 | -6 | -7 | -6 | -4 | -24 | -24 | -22 | 20 |
| 17 | 14 | 12 | 13 | 15 | 9 | 10 | 7 | 3 | 3 | 11 | 4 | 2 | 9 | 15 | 20 | 24 | 24 | 22 | 20 |
| 9 | 11 | 11 | 11 | 15 | 13 | 10 | 7 | 3 | 3 | -2 | -6 | -9 | -8 | -6 | 0 | 6 | 7 | 6 | 7 |
| 12 | 12 | 15 | 17 | 25 | 7 | 4 | 9 | 9 | 9 | 5 | 2 | 4 | 5 | 1 | -3 | -2 | 2 | 6 | 11 |
| 13 | 15 | 12 | 5 | 25 | 13 | 21 | 13 | 4 | 4 | 0 | -3 | -4 | -3 | -2 | 2 | 6 | 7 | 7 | 10 |
| 17 | 18 | 15 | 11 | 8 | 8 | -1 | -8 | -10 | -10 | -9 | -7 | -5 | -5 | -5 | -4 | -2 | 1 | 6 | 12 |
| 10 | 3 | 4 | 2 | -4 | -8 | -8 | 3 | 0 | 0 | -12 | -8 | -1 | 4 | 8 | 9 | 11 | 15 | 18 | 17 |
| -4 | -7 | 0 | -8 | 4 | 4 | 4 | -3 | -1 | -1 | -6 | -11 | -16 | -19 | -17 | -5 | 0 | 0 | 0 | -2 |
| -7 | -7 | -9 | -10 | -5 | -8 | -12 | -8 | -7 | -7 | -3 | -10 | -14 | -16 | -17 | -14 | -12 | -9 | -7 | -7 |
| -7 | -4 | 0 | -10 | -9 | -8 | -10 | -8 | -7 | -7 | -6 | -5 | -5 | -6 | -9 | -10 | -10 | -10 | -9 | -9 |
| -1 | 3 | 6 | 1 | -1 | 5 | -3 | 0 | 6 | 1 | 2 | 0 | -1 | 2 | 5 | 5 | 0 | -3 | -3 | -3 |
| -8 | -8 | -8 | 6 | 2 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 3 | 3 | 3 | 4 | 6 | 5 | -1 | -8 |

IIV325 57.017.0
STATION NO. 67
INSTR PERIOD = 0.046 SEC DAMPING = 0.552
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
ALEXANDER BLDG., 16TH FL., SAN FRANCISCO, CAL.
ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.
EPICENTER - 37 39 00N, 122 27 00W
COMP S81W 37 47 00N, 122 24 00W

PEAK VALS ACCLN = 39.6 CM/SEC/SEC AT 0.34 SEC VELO = 2.6 CM/SEC AT 0.94 SEC DISP = -1.5 CM AT 6.88 SEC

1545 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
INITIAL VELO = 0.71371 CM/SEC INITIAL DISP = -0.00552 CM

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 34 | 26 | 5 | -33 | -82 | -124 | -159 | -191 | -221 | -232 | -208 | -120 | 24 | 197 | 341 | 390 | 396 | 367 | 276 |
| 112 | -29 | -123 | -187 | -189 | -154 | -119 | -87 | -53 | -35 | -37 | -49 | -68 | -107 | -148 | -160 | -135 | -76 | 22 | 142 |
| 250 | 320 | 338 | 324 | 270 | 181 | 84 | 37 | -116 | -171 | -197 | -203 | -207 | -206 | -197 | -184 | -172 | -156 | -128 | -92 |
| -33 | 35 | 121 | 214 | 281 | 329 | 339 | 298 | 233 | 151 | 43 | -74 | -175 | -243 | -261 | -234 | -168 | -101 | -55 | -41 |
| -47 | -54 | -49 | -31 | -3 | 30 | 76 | 121 | 156 | 172 | 161 | 130 | 72 | 27 | -12 | -53 | -93 | -134 | -177 | -199 |
| -181 | -145 | -113 | -74 | -38 | -8 | 24 | 63 | 91 | 117 | 137 | 140 | 136 | 122 | 99 | 66 | 19 | -22 | -55 | -97 |
| -127 | -150 | -165 | -160 | -132 | -90 | -45 | 7 | 62 | 114 | 158 | 185 | 194 | 182 | 150 | 101 | 38 | -20 | -81 | -133 |
| -152 | -152 | -146 | -128 | -104 | -82 | -65 | -52 | -41 | -27 | -8 | 16 | 47 | 77 | 97 | 118 | 134 | 138 | 134 | 119 |
| 90 | 34 | -25 | -75 | -112 | -130 | -138 | -132 | -121 | -97 | -63 | -14 | 28 | 59 | 73 | 69 | 56 | 35 | 14 | 0 |
| -3 | 1 | -2 | -11 | -17 | -23 | -25 | -26 | -33 | -40 | -44 | -48 | -49 | -50 | -43 | -25 | 1 | 31 | 46 | 55 |
| 59 | 58 | 58 | 57 | 54 | 44 | 34 | 16 | -11 | -33 | -45 | -58 | -69 | -76 | -82 | -84 | -76 | -50 | -16 | 14 |
| 39 | 57 | 67 | 67 | 58 | 45 | 25 | 8 | -2 | -11 | -15 | -18 | -25 | -31 | -36 | -39 | -36 | -27 | -24 | -18 |
| -5 | 8 | 26 | 44 | 58 | 67 | 55 | 34 | 10 | -15 | -33 | -57 | -70 | -70 | -60 | -44 | -28 | -13 | 0 | 11 |
| 24 | 28 | 28 | 21 | 19 | 22 | 26 | 33 | 37 | 33 | 25 | 12 | -13 | -38 | -60 | -74 | -34 | -63 | -45 | -18 |
| 13 | 28 | 44 | 61 | 72 | 76 | 75 | 64 | 55 | 49 | 39 | 29 | 18 | 8 | -6 | -24 | -34 | -44 | -52 | -60 |
| -61 | -53 | -39 | -21 | -2 | 18 | 38 | 56 | 66 | 63 | 49 | 36 | 24 | 11 | -5 | -21 | -27 | -19 | -16 | -15 |
| -8 | 2 | 3 | -6 | -15 | -13 | -7 | 5 | 21 | 35 | 43 | 46 | 44 | 39 | 27 | 16 | 8 | -2 | -8 | -9 |
| -9 | -6 | 8 | 23 | 23 | 26 | 23 | 18 | 15 | 10 | 2 | 1 | 4 | 1 | 0 | 4 | 9 | 13 | 11 | 10 |
| 9 | 7 | 7 | 10 | 11 | 12 | 16 | 22 | 25 | 22 | 12 | 4 | -8 | -22 | -31 | -34 | -32 | -25 | -14 | -1 |
| 8 | 11 | 14 | 15 | 14 | 12 | 13 | 15 | 20 | 27 | 34 | 35 | 31 | 23 | 7 | -11 | -27 | -40 | -46 | -45 |
| -38 | -27 | -10 | 15 | 38 | 55 | 68 | 65 | 56 | 43 | 23 | 8 | 3 | -4 | -12 | -17 | -20 | -26 | -33 | -33 |
| -30 | -31 | -33 | -29 | -21 | -20 | -15 | -1 | 12 | 27 | 31 | 29 | 25 | 20 | 14 | 7 | -7 | -21 | -27 | -29 |
| -22 | -15 | -13 | -8 | 6 | 14 | 16 | 17 | 23 | 29 | 32 | 36 | 39 | 39 | 34 | 25 | 9 | -7 | -17 | -26 |
| -30 | -34 | -28 | -22 | -20 | -13 | -9 | -3 | 8 | 16 | 20 | 26 | 21 | 11 | 4 | -5 | -16 | -22 | -20 | -18 |
| -18 | -23 | -29 | -31 | -28 | -24 | -16 | -5 | 6 | 11 | 18 | 29 | 32 | 31 | 30 | 25 | 17 | 8 | -1 | -9 |
| -17 | -24 | -30 | -33 | -32 | -30 | -26 | -19 | -9 | -1 | 5 | 6 | 13 | 26 | 25 | 19 | 8 | 5 | 4 | -2 |
| -7 | -12 | -17 | -21 | -27 | -32 | -32 | -28 | -20 | -11 | -1 | 11 | 21 | 30 | 39 | 44 | 43 | 39 | 31 | 23 |
| 14 | 1 | -10 | -18 | -22 | -22 | -21 | -21 | -22 | -28 | -32 | -32 | -35 | -32 | -24 | -12 | 1 | 12 | 20 | 20 |
| 22 | 24 | 19 | 7 | -6 | -22 | -43 | -54 | -51 | -43 | -35 | -27 | -21 | -11 | 1 | 8 | 11 | 18 | 24 | 27 |
| 30 | 34 | 37 | 38 | 38 | 39 | 33 | 23 | 21 | 15 | 1 | -12 | -25 | -36 | -42 | -39 | -30 | -21 | -8 | 7 |
| 15 | 21 | 26 | 23 | 16 | 13 | 13 | 16 | 19 | 22 | 19 | 9 | -4 | -15 | -24 | -35 | -47 | -60 | -67 | -70 |
| -61 | -41 | -22 | -6 | 6 | 13 | 15 | 17 | 18 | 14 | 6 | 1 | -1 | -3 | -11 | -18 | -27 | -38 | -46 | -54 |
| -62 | -65 | -59 | -42 | -25 | -11 | 3 | 19 | 37 | 51 | 60 | 58 | 49 | 39 | 31 | 27 | 16 | 4 | -6 | -13 |
| -19 | -25 | -27 | -26 | -25 | -17 | -6 | 4 | 17 | 30 | 42 | 47 | 45 | 36 | 25 | 13 | 5 | -3 | -14 | -25 |
| -34 | -40 | -41 | -47 | -50 | -49 | -46 | -39 | -30 | -21 | -13 | -6 | 3 | 17 | 22 | 18 | 16 | 8 | 2 | 2 |
| -2 | -8 | -14 | -20 | -24 | -26 | -27 | -26 | -19 | -11 | -9 | -1 | 16 | 19 | 22 | 25 | 26 | 27 | 31 | 35 |
| 34 | 26 | 16 | 12 | 7 | -1 | -8 | -17 | -20 | -17 | -9 | -1 | 4 | 12 | 23 | 30 | 32 | 32 | 32 | 28 |
| 22 | 14 | 6 | 1 | -3 | -6 | -8 | -8 | -8 | -8 | -9 | -12 | -14 | -13 | -13 | -13 | -11 | -5 | 3 | 8 |
| 9 | 15 | 10 | 1 | -2 | -10 | -17 | -17 | -14 | -13 | -13 | -13 | -10 | -5 | 0 | 4 | 6 | 8 | 8 | 8 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 3 | -2 | -1 | 1 | 4 | 4 | 4 | 4 | 7 | 9 | 11 | 14 |
| 14 | 13 | 11 | 8 | 5 | -2 | -5 | -9 | -11 | -10 | -4 | 1 | 7 | 14 | 19 | 15 | 4 | 5 | 5 | 2 |
| -5 | -6 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -4 | -4 | -1 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 6 | 5 | 1 | -7 | -17 | -20 | -18 | -14 | -6 | 0 | 2 | 2 | 5 | 9 | 9 | 6 | 6 | 6 | 6 | 7 |
| 12 | 17 | 17 | 15 | 11 | 8 | 4 | 2 | 2 | 3 | 7 | 11 | 13 | 13 | 16 | 18 | 18 | 18 | 18 | 16 |

IIV326 57.020.0 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST EPICENTER - 37 39 00N, 122 27 00W
STATION NO. 49 OAKLAND CITY HALL, BSMT, OAKLAND, CAL. COMP S64E 37 48 00N, 122 16 00W
INSTR PERIOD = 0.067 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

| PEAK VALS | ACLN = | -3.5 | CM/SEC/SEC AT | 0.20 | SEC | VELO = | -0.6 | CM/SEC AT | 0.38 | SEC | DISP = | 0.4 | CM AT | 4.72 | SEC |
|-----------|--------|------|---------------|------|-----|--------|------|-----------|------|-----|--------|-----|-------|------|-----|
|-----------|--------|------|---------------|------|-----|--------|------|-----------|------|-----|--------|-----|-------|------|-----|

INITIAL VELO = -0.21055 CM/SEC INITIAL DISP = -0.02130 CM

1470 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 20 | -2 | -7 | -3 | 3 | 9 | 7 | -6 | -20 | -30 | -35 | -28 | -14 | 1 | 3 | -6 | -17 | -28 | -27 | -8 |
| 18 | 34 | 30 | 19 | 10 | 8 | 13 | 18 | 24 | 29 | 27 | 16 | 4 | -4 | -5 | -1 | 3 | 6 | 5 | -2 |
| -11 | -14 | -7 | 15 | 15 | 17 | 16 | 18 | 23 | 25 | 20 | 11 | 2 | -5 | -8 | -7 | -5 | -4 | -3 | 1 |
| -3 | -13 | -20 | -19 | -13 | -6 | 1 | 6 | 9 | 11 | 10 | 4 | -3 | -5 | -1 | 5 | 7 | 4 | 0 | -3 |
| -5 | -6 | -5 | -2 | 1 | 4 | 8 | 11 | 8 | 6 | 4 | 5 | 10 | 14 | 14 | 13 | 14 | 15 | 14 | 4 |
| 5 | 0 | -3 | -6 | -6 | -3 | 0 | 0 | -2 | -3 | -4 | -5 | -4 | 1 | 8 | -9 | -6 | 10 | 7 | 10 |
| 2 | 0 | -3 | -8 | -9 | -6 | 1 | 1 | 0 | -3 | -6 | -11 | -18 | -21 | -16 | -4 | -4 | -4 | -5 | -4 |
| 0 | 6 | 12 | 17 | 21 | 25 | 27 | 19 | 8 | 0 | -4 | -3 | 0 | 2 | 1 | -4 | -10 | -14 | -14 | -13 |
| -12 | -10 | -8 | -5 | 0 | 5 | 4 | 3 | 4 | 9 | 12 | 10 | 6 | 5 | 5 | 7 | 9 | 10 | 6 | -1 |
| -8 | -11 | -15 | -15 | -13 | -7 | -5 | -6 | -8 | -7 | -5 | -3 | 0 | 1 | -1 | -4 | -4 | -1 | 2 | 5 |
| 6 | 4 | 1 | -2 | -5 | -6 | -5 | -3 | -2 | -1 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 14 | 13 | 10 |
| 6 | 3 | 0 | -2 | -4 | -6 | -8 | -11 | -12 | -12 | -10 | -10 | -15 | -18 | -18 | -15 | -12 | -9 | -6 | -3 |
| 0 | 1 | 2 | 2 | 2 | 2 | 4 | 5 | 2 | -2 | -2 | -1 | 1 | 0 | -2 | -5 | -5 | -1 | 2 | 3 |
| 1 | 0 | -1 | -1 | -2 | -2 | -1 | 1 | 3 | 6 | 7 | 6 | 4 | 2 | 1 | -1 | -2 | -1 | -1 | -1 |
| -1 | -1 | -2 | -3 | -3 | -4 | -5 | -6 | -8 | -10 | -10 | -8 | -7 | -5 | -3 | -2 | -1 | -2 | -2 | 4 |
| 6 | 6 | 7 | 7 | 7 | 6 | 3 | 0 | -1 | -2 | -3 | -3 | -6 | -6 | -4 | -2 | 0 | 0 | -1 | -2 |
| -2 | -1 | 0 | 1 | 3 | 5 | 6 | 4 | 1 | -1 | -1 | -1 | -1 | -1 | -1 | 9 | 7 | -9 | -8 | 4 |
| -7 | -6 | -7 | -8 | -6 | -3 | 0 | 0 | -2 | -4 | -5 | -4 | -1 | 3 | 7 | -6 | 4 | 4 | 0 | -2 |
| -1 | 0 | 0 | -2 | -4 | -6 | -6 | -6 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 2 | 3 | 4 | 4 | 4 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 0 | -3 | -5 | -4 | -1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| 1 | 2 | 3 | 4 | 3 | 2 | 0 | 5 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -2 | -4 | -6 | -6 | -4 |
| -2 | -1 | 1 | 1 | 2 | 3 | 4 | -1 | 6 | 7 | 8 | 9 | 7 | 6 | 4 | 3 | 2 | 2 | 1 | 1 |
| 0 | 0 | -1 | -1 | -1 | -2 | -2 | -2 | 1 | 2 | 1 | -1 | -2 | -2 | -2 | 2 | -2 | -2 | -2 | -2 |
| -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -1 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 9 | 8 | 6 | 5 | 4 | 3 | 3 | 4 | 5 | 6 | 6 | 6 | 4 | 3 | 1 | 1 | 2 | 4 | 4 | 1 |
| -2 | -4 | -3 | -1 | 1 | 0 | 0 | 1 | 0 | -3 | -4 | -3 | 0 | 2 | 4 | 2 | -2 | -4 | -2 | 0 |
| 3 | 4 | 3 | 4 | 4 | 3 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | -1 | -2 | -4 | -5 | 2 |
| -5 | -4 | -4 | -3 | -2 | -1 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 2 |
| 4 | 4 | 4 | 3 | 3 | 3 | 2 | 1 | 1 | 0 | -1 | -1 | -2 | -1 | 0 | 1 | 2 | 4 | 5 | -5 |
| -4 | -4 | -3 | -3 | -3 | -1 | 2 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | -2 |
| -4 | -4 | -3 | -2 | -1 | 0 | 2 | 2 | 2 | 2 | 1 | 0 | -2 | -1 | 1 | 1 | 2 | 4 | 5 | 2 |
| -4 | -4 | -3 | -2 | -1 | 0 | 2 | 2 | 2 | 2 | 1 | 0 | -2 | -1 | 1 | 1 | 2 | 4 | 5 | -2 |
| | | | | | | | | | | | | | | | | | | | |

[illegible]

| | | | |
|---------------|------------------------|--------------------------|-----------|
| -1 1 3 1 2 0 | -2 3 0 2 1 0 0 | 1 1 0 -2 2 -3 1 1 -2 | -1 1 2 |
| -1 1 3 1 2 0 | -1 -3 0 2 0 2 1 0 0 | 1 1 0 -2 -3 -3 1 1 -1 | -1 1 2 |
| -1 1 4 1 2 0 | -1 -3 0 1 0 0 2 1 0 0 | 1 1 0 -1 -3 -2 -3 1 1 -1 | -1 1 2 |
| -1 0 4 1 2 -1 | -1 -4 0 1 0 0 2 1 0 0 | 1 1 1 -1 -3 -2 -3 1 1 -1 | -2 1 2 |
| 0 0 4 1 2 -1 | 0 -4 0 1 0 0 2 1 0 0 | 1 1 1 -1 -3 -2 -2 1 1 0 | -2 1 1 |
| 0 0 4 1 2 -1 | 0 -4 0 1 0 -1 2 1 0 0 | 0 1 1 -1 -3 -2 -2 0 1 0 | -2 1 1 |
| 0 0 4 1 2 -1 | 0 -4 0 1 0 -1 2 1 0 0 | 0 1 1 -1 -3 -2 -2 0 1 0 | -2 1 1 |
| 0 0 3 1 2 0 | 1 -4 0 1 0 -1 2 1 0 0 | 0 1 1 -1 -3 -2 -2 0 1 1 | -2 0 1 |
| 0 -1 3 1 2 0 | 1 -5 0 1 0 -1 2 2 0 0 | 0 1 1 -1 -3 -2 -1 -1 1 1 | -3 0 1 |
| 0 -1 3 1 1 0 | 1 -5 -1 1 1 -1 2 2 0 0 | 0 1 1 -1 -3 -1 -1 -1 1 1 | -3 0 1 |
| 0 -1 3 1 1 0 | 2 -5 -1 0 1 1 -1 2 0 0 | 0 1 1 -1 -3 -1 -1 1 1 1 | -3 0 1 2 |
| 0 -1 3 1 1 0 | 2 -5 -1 0 1 1 -1 2 0 0 | 0 1 1 -1 -2 1 0 -2 1 1 1 | -3 0 1 2 |
| 0 -2 3 1 1 0 | 2 -6 -1 0 2 1 -1 2 0 0 | 0 1 1 0 -2 0 0 -2 1 1 1 | -3 0 1 2 |
| 0 -2 3 2 1 1 | 2 -6 -2 0 2 -1 1 2 0 0 | 0 1 1 0 -2 0 0 -2 1 1 1 | -3 0 1 2 |
| -1 -2 3 2 1 1 | 1 -5 -2 0 2 -1 1 2 0 0 | 0 1 1 0 -2 0 1 -3 1 1 1 | -3 0 1 2 |
| -1 -2 2 2 1 1 | 1 -5 -2 0 2 -1 1 2 1 0 | 0 1 1 0 -2 -1 1 -3 1 1 1 | -3 0 1 2 |
| -1 -2 2 2 1 1 | 1 -4 -2 0 2 -1 0 2 1 0 | 0 1 1 0 -2 -1 2 -3 1 1 1 | -3 0 1 2 |
| -1 -1 2 3 1 1 | 1 -4 -2 0 2 -1 0 3 1 0 | 0 1 1 0 -2 -1 2 -4 1 1 1 | -2 -1 1 2 |
| -1 -1 2 3 1 1 | 0 -3 -3 0 2 -1 0 3 1 0 | 0 1 1 0 -2 -2 -4 1 1 1 | -2 -1 1 2 |
| -1 -1 1 3 1 1 | 0 -2 -3 0 2 -1 0 3 1 0 | 0 1 1 0 -2 -2 -4 1 1 1 | -2 -1 1 2 |

IIV327 57.021.0 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST EPICENTER - 37 39 00N, 122 27 00W
STATION NO. 0000 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL. COMP N26E 37 48 00N, 122 16 00W
INSTR PERIOD = 0.045 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -8.1 CM/SEC/SEC AT 0.66 SEC VELO = -2.0 CM/SEC AT 14.88 SEC DISP = 1.1 CM AT 13.56 SEC

INITIAL VELO = 0.57847 CM/SEC INITIAL DISP = 0.08410 CM
783 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 78 | 73 | 62 | 49 | 31 | 0 | -35 | -57 | -65 | -47 | -15 | 17 | 28 | 9 | -29 | -60 | -62 | -33 | 0 | 23 |
| 42 | 39 | -6 | -44 | -55 | -32 | -3 | 4 | 9 | -18 | -35 | -49 | -64 | -81 | -81 | -55 | -45 | -31 | -23 | -19 |
| -15 | -9 | -2 | 2 | 1 | -3 | -3 | -3 | -2 | -3 | -3 | -3 | -3 | -2 | 1 | 4 | 5 | 8 | 11 | 10 |
| 10 | 12 | 17 | 25 | 29 | 29 | 33 | 45 | 57 | 65 | 66 | 65 | 61 | 51 | 38 | 30 | 29 | 32 | 36 | 34 |
| 30 | 20 | 10 | -5 | -15 | -21 | -21 | -21 | -21 | -21 | -21 | -21 | -21 | -21 | -21 | -21 | -21 | -21 | -21 | -21 |
| -21 | -21 | -21 | -21 | -23 | -26 | -29 | -32 | -40 | -53 | -62 | -69 | -70 | -68 | -66 | -62 | -55 | -46 | -38 | -29 |
| -20 | -10 | 4 | 18 | 25 | 35 | 47 | 48 | 47 | 44 | 40 | 36 | 32 | 29 | 29 | 29 | 29 | 29 | 29 | 27 |
| 24 | 21 | 18 | 16 | 16 | 16 | 15 | 10 | 4 | 3 | 3 | 1 | -2 | -7 | -13 | -17 | -19 | -21 | -23 | 17 |
| -28 | -32 | -33 | -33 | -33 | -32 | -31 | -27 | -22 | -20 | -18 | -11 | -7 | -6 | 0 | 6 | 11 | 14 | 16 | 17 |
| 16 | 17 | 19 | 21 | 23 | 24 | 28 | 30 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| 34 | 33 | 33 | 32 | 29 | 27 | 25 | 21 | 20 | 19 | 14 | 10 | 7 | 5 | 1 | 1 | -3 | -11 | -16 | -20 |
| -24 | -25 | -25 | -24 | -23 | -18 | -15 | -13 | -13 | -13 | -13 | -13 | -13 | -13 | -13 | -13 | -13 | -13 | -14 | -13 |
| -9 | -1 | 4 | 5 | 5 | 6 | 9 | 11 | 11 | 11 | 9 | 6 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 4 | 2 | -1 | -2 | -2 | -2 | -2 | -5 | -9 | -13 | -17 | -20 | -20 | -20 | -20 | -17 | -13 | -13 | -13 | -13 |
| -11 | -7 | -7 | -7 | -7 | -7 | -7 | -8 | -11 | -13 | -13 | -10 | -7 | -7 | -7 | -7 | -7 | -6 | -3 | -1 |
| -1 | 2 | 5 | 5 | 8 | 11 | 11 | 11 | 11 | 10 | 7 | 5 | 5 | 5 | 4 | 1 | -4 | -9 | -15 | -19 |
| -22 | -25 | -27 | -30 | -32 | -32 | -32 | -32 | -32 | -32 | -32 | -31 | -31 | -29 | -25 | -19 | -8 | 2 | 7 | 17 |
| 23 | 30 | 36 | 37 | 39 | 42 | 42 | 39 | 36 | 36 | 36 | 34 | 31 | 30 | 28 | 24 | 24 | 24 | 24 | 24 |
| 24 | 23 | 18 | 11 | 7 | 3 | -1 | -5 | -10 | -15 | -19 | -23 | -27 | -30 | -31 | -31 | -31 | -31 | -31 | 24 |
| -31 | -31 | -31 | -31 | -31 | -31 | -31 | -31 | -31 | -31 | -31 | -30 | -26 | -13 | 4 | 15 | 23 | 29 | 31 | 31 |
| 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 33 | 36 | 37 | 35 | 32 | 31 | 31 | 31 | 31 | 28 |
| 24 | 25 | 24 | 20 | 14 | 12 | 8 | -5 | -15 | -19 | -18 | -18 | -18 | -18 | -18 | -18 | -18 | -18 | -19 | -22 |
| -24 | -24 | -24 | -24 | -24 | -24 | -24 | -24 | -24 | -24 | -24 | -24 | -24 | -24 | -24 | -23 | -19 | -15 | -9 | -1 |
| 6 | 11 | 18 | 26 | 30 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 29 | 26 | 25 | 26 | 26 | 25 |
| 24 | 21 | 20 | 19 | 17 | 14 | 9 | 1 | -7 | -15 | -22 | -24 | -23 | -23 | -23 | -23 | -23 | -21 | -18 | -17 |
| -17 | -17 | -17 | -17 | -17 | -17 | -17 | -17 | -17 | -17 | -15 | -12 | -10 | -6 | -2 | 1 | 4 | 7 | 8 | 8 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 10 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 13 | 10 | 8 | 8 | 8 | 8 | 4 | -5 | -12 | -17 | -19 |
| -21 | -22 | -22 | -22 | -22 | -22 | -22 | -23 | -26 | -28 | -27 | -24 | -22 | -19 | -15 | -8 | 2 | 14 | 25 | 30 |
| 33 | 32 | 29 | 27 | 24 | 23 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 26 | 23 | 19 |
| 13 | 9 | 7 | 4 | 2 | -1 | -4 | -7 | -12 | -18 | -23 | -28 | -31 | -30 | -26 | -27 | -29 | -32 | -33 | -33 |
| -33 | -33 | -34 | -37 | -38 | -36 | -34 | -31 | -27 | -18 | -7 | 0 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 11 | 11 | 10 | 9 | 6 | 5 | 3 | -5 | -13 | -22 | -31 | -33 | -32 | -32 | -32 | -32 | -32 | -32 | -32 | -32 |
| -32 | -32 | -32 | -32 | -32 | -32 | -32 | -29 | -26 | -19 | -7 | 4 | 10 | 15 | 18 | 18 | 17 | 15 | 12 | 12 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 5 | 1 | -2 |
| -5 | -10 | -15 | -21 | -29 | -38 | -47 | -54 | -60 | -65 | -66 | -63 | -62 | -61 | -58 | -54 | -48 | -43 | -41 | -38 |
| -35 | -29 | -23 | -15 | -1 | 12 | 18 | 23 | 26 | 29 | 30 | 31 | 31 | 31 | 31 | 28 | 26 | 26 | 26 | 27 |
| 27 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 30 | 29 | 25 | 14 | 4 |
| -7 | -17 | -23 | -27 | -28 | -28 | -28 | -28 | -28 | -29 | -29 | -29 | -29 | -29 | -29 | -30 | -29 | -25 | -25 | -4 |

IIV327 57.021.0
 STATION NO. 0000
 INSTR PERIOD = 0.046 SEC
 DAMPING = 0.653
 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST
 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL.
 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.
 EPICENTER - 37 39 00N, 122 27 00W
 COMP N64W 37 48 00N, 122 16 00W

```

PEAK VALS      ACLN = -14.8  CM/SEC/SEC AT  2.96 SEC      VELO =  -2.7  CM/SEC AT  2.00 SEC      DISP =  1.0  CM AT 12.10 SEC

```

INITIAL VELO = 0.78227 CM/SEC INITIAL DISP = 0.41068 CM

782 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 48 | 0 | -21 | -35 | -39 | -27 | -14 | -5 | -14 | -34 | -54 | -64 | -59 | -43 | -30 | -24 | -38 | -61 | -77 | -84 |
| -82 | -70 | -57 | -52 | -69 | -82 | -87 | -75 | -50 | -20 | -4 | -8 | -24 | -39 | -42 | -21 | 15 | 66 | 96 | 86 |
| 52 | 27 | 14 | 20 | 42 | 76 | 119 | 138 | 116 | 84 | 61 | 49 | 59 | 83 | 115 | 129 | 118 | 96 | 78 | 76 |
| 83 | 87 | 83 | 64 | 30 | -14 | -50 | -63 | -58 | -47 | -43 | -43 | -48 | -59 | -70 | -77 | -83 | -89 | -92 | -94 |
| -95 | -94 | -90 | -85 | -84 | -87 | -94 | -103 | -112 | -116 | -110 | -94 | -73 | -56 | -45 | -41 | -42 | -40 | -26 | -8 |
| 5 | 22 | 37 | 53 | 66 | 79 | 91 | 101 | 107 | 110 | 110 | 106 | 102 | 104 | 111 | 119 | 125 | 127 | 121 | 115 |
| 107 | 97 | 85 | 78 | 73 | 66 | 61 | 55 | 50 | 46 | 45 | 39 | 23 | 1 | -21 | -45 | -79 | -81 | -73 | -52 |
| -60 | -52 | -58 | -75 | -97 | -120 | -133 | -143 | -148 | -142 | -133 | -122 | -111 | -101 | -90 | -81 | -74 | -70 | -63 | -52 |
| -43 | -33 | -19 | -2 | 12 | 14 | 16 | 18 | 21 | 29 | 42 | 50 | 55 | 61 | 66 | 72 | 80 | 93 | 112 | 128 |
| 142 | 145 | 133 | 118 | 100 | 88 | 86 | 84 | 81 | 77 | 72 | 63 | 49 | 35 | 21 | 12 | 7 | 0 | -13 | -22 |
| -25 | -26 | -27 | -33 | -46 | -62 | -83 | -100 | -113 | -118 | -114 | -111 | -106 | -103 | -102 | -103 | -102 | -103 | -102 | -103 |
| -102 | -101 | -95 | -87 | -72 | -53 | -37 | -27 | -14 | 0 | 12 | 19 | 29 | 44 | 59 | 75 | 84 | 84 | 84 | -103 |
| 84 | 84 | 84 | 84 | 84 | 83 | 84 | 83 | 84 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 80 | 69 | 57 | 46 |
| 31 | 14 | -1 | -11 | -21 | -30 | -37 | -44 | -54 | -51 | -54 | -56 | -58 | -62 | -70 | -79 | -86 | -91 | -92 | -91 |
| -88 | -84 | -79 | -75 | -74 | -72 | -68 | -63 | -54 | -42 | -37 | -30 | -22 | -13 | -4 | 5 | 14 | 24 | 30 | 34 |
| 35 | 35 | 35 | 35 | 39 | 50 | 61 | 66 | 70 | 76 | 78 | 79 | 82 | 85 | 88 | 87 | 84 | 81 | 77 | 73 |
| 67 | 60 | 52 | 43 | 35 | 27 | 21 | 14 | 7 | -1 | -11 | -17 | -21 | -28 | -39 | -49 | -58 | -64 | -65 | -62 |
| -61 | -62 | -66 | -73 | -78 | -77 | -75 | -71 | -66 | -64 | -61 | -58 | -55 | -52 | -48 | -44 | -40 | -35 | -29 | -19 |
| -3 | 8 | 14 | 18 | 19 | 21 | 26 | 34 | 47 | 59 | 65 | 71 | 79 | 74 | 64 | 59 | 56 | 54 | 52 | 51 |
| 51 | 51 | 51 | 51 | 50 | 45 | 40 | 35 | 30 | 27 | 24 | 20 | 14 | 10 | 7 | 1 | -6 | -10 | -15 | -24 |
| -33 | -39 | -45 | -47 | -49 | -51 | -54 | -58 | -62 | -67 | -71 | -65 | -55 | -51 | -47 | -44 | -42 | -41 | -40 | -36 |
| -28 | -24 | -25 | -24 | -21 | -12 | -5 | 2 | 8 | 13 | 16 | 18 | 20 | 22 | 25 | 33 | 41 | 48 | 54 | 58 |
| 59 | 55 | 51 | 51 | 51 | 51 | 51 | 52 | 55 | 56 | 54 | 49 | 44 | 39 | 35 | 34 | 34 | 34 | 31 | 23 |
| 13 | 2 | -5 | -6 | -8 | -11 | -16 | -26 | -37 | -48 | -57 | -64 | -69 | -72 | -73 | -73 | -73 | -73 | -73 | -73 |
| -72 | -67 | -62 | -59 | -55 | -49 | -42 | -38 | -33 | -22 | -11 | -2 | 6 | 13 | 18 | 23 | 27 | 30 | 34 | 38 |
| 42 | 46 | 50 | 51 | 51 | 55 | 61 | 66 | 70 | 74 | 79 | 79 | 71 | 63 | 55 | 49 | 44 | 40 | 39 | 39 |
| 35 | 28 | 21 | 13 | 4 | -6 | -17 | -27 | -35 | -41 | -45 | -46 | -47 | -53 | -62 | -68 | -72 | -73 | -72 | -72 |
| -66 | -59 | -56 | -56 | -55 | -52 | -49 | -47 | -43 | -39 | -34 | -31 | -27 | -16 | -3 | 4 | 10 | 16 | 21 | 25 |
| 29 | 32 | 35 | 38 | 42 | 4 | | | | | | | | | | | | | | |

IIV327 57.021.0 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1515 PST EPICENTER - 37 39 00N, 122 27 00W
 STATION NO. 0000 OAKLAND CITY HALL, 16TH FL., OAKLAND, CAL. COMP UP 37 48 00N, 122 16 00W
 INSTR PERIOD = 0.045 SEC DAMPING = 0.552 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = 5.8 CM/SEC/SEC AT 2.54 SEC VELO = -0.9 CM/SEC AT 2.38 SEC DISP = -0.5 CM AT 3.04 SEC

783 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

INITIAL VELO = 0.58406 CM/SEC INITIAL DISP = 0.08453 CM

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -19 | -19 | -12 | -4 | -8 | -10 | -10 | -12 | -15 | -17 | -19 | -18 | -9 | 3 | 18 | 16 | 13 | 7 | 0 | -5 |
| -8 | -4 | 9 | 11 | 6 | -1 | -14 | -25 | -33 | -35 | -27 | -9 | 2 | 4 | -1 | -11 | -25 | -41 | -55 | -49 |
| -30 | -9 | 4 | 19 | 21 | 10 | 3 | 0 | 4 | 7 | 9 | 9 | 4 | -3 | -11 | -20 | -24 | -33 | -35 | -32 |
| -19 | -10 | -5 | -11 | -11 | -11 | -10 | -3 | -3 | 13 | 27 | 39 | 41 | 37 | 37 | 34 | 36 | 38 | 36 | 24 |
| 6 | -16 | -42 | -55 | -52 | -41 | -27 | -25 | -27 | -27 | -22 | 11 | 26 | 16 | 13 | 5 | 7 | 20 | 35 | 39 |
| 31 | 19 | 11 | 8 | 8 | 7 | 0 | -12 | -27 | -42 | -47 | -45 | -40 | -32 | -36 | -42 | -41 | -27 | -10 | 1 |
| 13 | 20 | 19 | 21 | 28 | 44 | 56 | 58 | 52 | 44 | 34 | 23 | 9 | -5 | -18 | -25 | -29 | -35 | -42 | -37 |
| -26 | -16 | -8 | 2 | 14 | 23 | 31 | 34 | 36 | 36 | 36 | 36 | 35 | 31 | 26 | 25 | 24 | 20 | 14 | 5 |
| -10 | -32 | -37 | -35 | -29 | -18 | -9 | -5 | -11 | -21 | -24 | -18 | -4 | 11 | 26 | 26 | 20 | 16 | 10 | 3 |
| 1 | 2 | 2 | 1 | -2 | -4 | -3 | 3 | 13 | 23 | 19 | 4 | -13 | -28 | -32 | -28 | -23 | -18 | -11 | 2 |
| 19 | 26 | 24 | 22 | 22 | 18 | 12 | 7 | 5 | 5 | 4 | 1 | 0 | -1 | 0 | 2 | 7 | 2 | -5 | -7 |
| -3 | 8 | 16 | 13 | 9 | 10 | 10 | 11 | 14 | 15 | 11 | 7 | 2 | -8 | -17 | -19 | -18 | -15 | -12 | -11 |
| -2 | 12 | 12 | 7 | 6 | 1 | -6 | -9 | -7 | -4 | 5 | 13 | 14 | 5 | 1 | 0 | -5 | -14 | -21 | -24 |
| -19 | -10 | -5 | -3 | 1 | 9 | 17 | 25 | 27 | 20 | 12 | 9 | 4 | 2 | 2 | 5 | 10 | 12 | 4 | -10 |
| -11 | -15 | -15 | -10 | 0 | 1 | -2 | -2 | 6 | 10 | 7 | 6 | 4 | -3 | -8 | -13 | -12 | -2 | 6 | 6 |
| 3 | 1 | 1 | 1 | 0 | -3 | -6 | -9 | -10 | -10 | -7 | -5 | -3 | 3 | 3 | -2 | -5 | -9 | -9 | -6 |
| -5 | -5 | -3 | 1 | 1 | -1 | -6 | -10 | -12 | -15 | -14 | -7 | -3 | 2 | 9 | 14 | 18 | 21 | 19 | 13 |
| 8 | 6 | 9 | 10 | 8 | 3 | -1 | -10 | -12 | -5 | -7 | -7 | -6 | -6 | -4 | -1 | 2 | 1 | -1 | -1 |
| -4 | -5 | 1 | 6 | 17 | 24 | 23 | 15 | 5 | -1 | -3 | -6 | -12 | -18 | -23 | -25 | -30 | -33 | -30 | -27 |
| -23 | -20 | -16 | -9 | -3 | 4 | 9 | 13 | 14 | 13 | 13 | 13 | 7 | 0 | 0 | 2 | 3 | 2 | 0 | -2 |
| -3 | -4 | -8 | -13 | -14 | -14 | -14 | -14 | -14 | -14 | -14 | -14 | -12 | -3 | 5 | 7 | 7 | 7 | 7 | 8 |
| 10 | 13 | 18 | 22 | 21 | 16 | 9 | -1 | -14 | -19 | -22 | -24 | -21 | -15 | -12 | -9 | -9 | -9 | -9 | -6 |
| 0 | 4 | 6 | 9 | 14 | 18 | 19 | 17 | 13 | 4 | -3 | -3 | -7 | -13 | -14 | -14 | -14 | -14 | -14 | -12 |
| -4 | 2 | -3 | -6 | -3 | 6 | 10 | 12 | 14 | 14 | 18 | 25 | 30 | 31 | 30 | 26 | 16 | 8 | -7 | -15 |
| -14 | -18 | -18 | -18 | -18 | -16 | -13 | -10 | -7 | -4 | -1 | 2 | 9 | 10 | 9 | 10 | 10 | 9 | 10 | 9 |
| 9 | 7 | 4 | 2 | -1 | -8 | -13 | -12 | -12 | -12 | -12 | -12 | -6 | 3 | 4 | 4 | 3 | 4 | 4 | 7 |
| 11 | 13 | 12 | 9 | 7 | 4 | 0 | -6 | -8 | -7 | -7 | -7 | -8 | -10 | -8 | 0 | 6 | 12 | 11 | 7 |
| 5 | 8 | 14 | 20 | 20 | 19 | 16 | 12 | 9 | 5 | 3 | 3 | 3 | 1 | -3 | -9 | -16 | -22 | -21 | -16 |
| -13 | -9 | -4 | 3 | 2 | -1 | -2 | -2 | -2 | -1 | 2 | 3 | 3 | 3 | 2 | -1 | -4 | -7 | -8 | -11 |
| -17 | -21 | -18 | -10 | -5 | 3 | 8 | 12 | 15 | 16 | 18 | 17 | 13 | 9 | 8 | 5 | 3 | 2 | -1 | -1 |
| -1 | 0 | 3 | 4 | 3 | -2 | -7 | -6 | -2 | 3 | 5 | 2 | -3 | -2 | 4 | 5 | 7 | 12 | 14 | 11 |
| 6 | 0 | 0 | -2 | -8 | -13 | -15 | -12 | -6 | -5 | -5 | -2 | 0 | 1 | 4 | 6 | 6 | 6 | 6 | 8 |
| 12 | 12 | 6 | 4 | 5 | 13 | 9 | -1 | -6 | -11 | -12 | -12 | -12 | -12 | -12 | -9 | -5 | 1 | 6 | 8 |
| 5 | 4 | 7 | 13 | 14 | 13 | 9 | 8 | 8 | 5 | 1 | -2 | -8 | -14 | -13 | -14 | -16 | -19 | -19 | -19 |
| -16 | -10 | -5 | -2 | 2 | 5 | 9 | 11 | 12 | 11 | 9 | 8 | 6 | 3 | 2 | 2 | 1 | -1 | -3 | -4 |
| -7 | -3 | 2 | -2 | 2 | 2 | 2 | 2 | 3 | 7 | 12 | 9 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| 5 | 7 | 3 | -1 | -5 | -8 | -9 | -9 | -9 | -9 | -6 | -9 | -9 | -9 | -7 | -5 | -4 | -4 | -3 | -1 |
| 2 | 7 | 11 | 8 | 4 | 1 | -1 | -4 | -6 | -6 | -6 | -6 | -6 | -7 | -7 | -7 | -7 | -7 | -4 | -2 |
| -2 | -2 | -2 | -2 | 0 | 2 | 2 | 1 | -4 | -3 | -4 | -7 | -10 | -9 | -10 | -12 | -16 | -20 | -19 | -15 |
| -14 | -14 | -14 | -2 | 0 | 2 | 2 | 1 | -1 | -3 | -4 | -7 | -10 | -9 | -10 | -12 | -16 | -20 | -19 | -15 |

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|---|----|---|----|----|-----|----|----|----|----|----|----|
| 3 | 3 | 4 | -2 | 3 | -2 | -2 | 1 | 3 | 0 | 4 | -1 | 1 | -5 | -1 | 2 | -1 | -2 | -1 | -4 |
| 2 | 3 | 3 | -3 | 4 | -2 | -2 | 1 | 4 | -2 | 3 | -1 | 1 | -5 | -1 | 2 | -1 | 0 | -1 | -3 |
| 2 | 3 | 3 | -3 | 3 | -1 | -2 | 1 | 4 | -3 | 2 | -1 | 0 | -6 | 0 | 1 | -1 | 2 | 1 | 0 |
| 4 | 4 | 2 | -4 | 2 | -1 | -2 | 1 | 4 | -3 | 1 | -2 | 0 | -7 | 0 | 1 | -1 | 2 | 2 | 2 |
| 6 | 5 | 2 | -4 | 2 | -1 | -2 | 1 | 4 | -2 | 0 | -2 | -1 | -8 | 1 | 2 | -1 | 1 | 2 | 1 |
| 6 | 5 | 1 | -4 | 1 | 0 | -2 | 2 | 4 | -2 | 1 | -3 | -2 | -10 | 2 | 2 | -1 | -1 | -2 | 0 |
| 6 | 4 | 1 | -4 | 2 | -1 | -2 | 2 | 4 | -3 | 1 | -3 | -3 | -10 | 3 | 3 | 0 | -2 | 0 | -1 |
| 7 | 3 | 0 | -4 | 3 | -1 | -2 | 2 | 4 | -3 | 2 | -3 | -4 | -8 | 4 | 4 | 1 | -2 | 0 | -3 |
| 7 | 2 | 0 | -3 | 4 | -2 | -2 | 1 | 4 | -4 | 2 | -3 | -4 | -7 | 3 | 4 | 2 | -1 | 1 | -3 |
| 6 | 1 | -1 | -3 | 4 | -3 | -2 | 1 | 3 | -5 | 3 | -3 | -4 | -5 | 3 | 4 | 2 | 0 | 1 | -1 |
| 5 | 0 | -2 | -3 | 3 | -4 | -2 | 0 | 3 | -5 | 3 | -3 | -3 | -4 | 3 | 4 | 3 | -1 | 2 | 0 |
| 4 | -1 | -2 | -2 | 3 | -3 | -2 | 0 | 3 | -5 | 4 | -3 | -2 | -2 | 2 | 3 | 4 | -1 | 2 | 1 |
| 3 | -2 | -2 | -1 | 3 | -3 | -2 | -1 | 3 | -4 | 5 | -3 | -1 | -2 | 1 | 2 | 4 | -1 | 2 | 1 |
| 1 | -3 | -1 | 1 | 2 | -2 | -2 | -1 | 3 | -3 | 4 | -3 | -1 | -1 | 0 | 1 | 4 | -1 | 2 | 1 |
| -2 | -3 | 1 | 3 | 2 | -1 | -2 | -1 | 3 | -2 | 4 | -3 | -1 | 0 | 0 | 0 | 4 | -1 | 1 | 0 |
| -5 | -2 | 2 | 4 | 2 | -1 | -2 | -1 | 3 | -1 | 3 | -2 | -1 | -1 | -1 | -1 | 3 | -1 | 0 | -1 |
| -7 | 0 | 2 | 4 | 1 | 0 | -2 | -1 | 2 | 0 | 2 | 0 | -1 | -3 | -1 | -1 | 3 | -1 | -1 | -3 |
| -6 | 1 | 3 | 4 | 1 | 1 | -2 | -2 | 1 | 2 | 2 | -1 | 2 | -5 | -1 | -1 | 3 | -1 | -1 | -4 |
| -4 | 2 | 3 | 4 | 0 | 2 | -2 | -2 | 1 | 1 | 4 | -1 | 3 | -5 | -1 | -1 | 3 | -1 | 0 | -4 |
| -3 | 3 | 3 | 4 | -1 | 3 | -2 | -2 | 1 | 3 | 5 | -1 | 2 | -5 | -1 | -1 | 3 | -1 | 0 | -4 |

IIV328 57.022.0 SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1627 PST
 STATION NO. 78 SOUTHERN PACIFIC BLDG., BSMT., SAN FRANCISCO, CAL.
 INSTR PERIOD = 0.066 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

EPICENTER - 37 39 00N, 122 29 00W
 COMP N45W 37 48 00N, 122 24 00W

PEAK VALS ACIN = -9.0 CM/SEC/SEC AT 0.60 SEC VELO = 0.9 CM/SEC AT 0.52 SEC DISP = -0.5 CM AT 6.70 SEC

1312 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

INITIAL VELO = 0.27661 CM/SEC INITIAL DISP = 0.05218 CM

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | -23 | -38 | -40 | -33 | -27 | -24 | -20 | -12 | -5 | 1 | 5 | 9 | 13 | 23 | 39 | 51 | 58 | 53 |
| 49 | 45 | 42 | 40 | 33 | 21 | -3 | -33 | -63 | -84 | -90 | -86 | -76 | -71 | -65 | -53 | -42 | -26 | 16 |
| 23 | 29 | 33 | 32 | 20 | 4 | -10 | -19 | -21 | -14 | -3 | 8 | 11 | 7 | 8 | 12 | 12 | 13 | 19 |
| 16 | 12 | 10 | 10 | 12 | 15 | 18 | 21 | 24 | 18 | 7 | 3 | -2 | -8 | -11 | -13 | -16 | -13 | -5 |
| -2 | 0 | 2 | 3 | 1 | -1 | -4 | -2 | 3 | 7 | 6 | 4 | 3 | 6 | 10 | 10 | 8 | 3 | -4 |
| -14 | -16 | -18 | -18 | -19 | -20 | -20 | -20 | -18 | -13 | -6 | 2 | 12 | 18 | 23 | 25 | 18 | 10 | 7 |
| 8 | 13 | 18 | 19 | 16 | 12 | 9 | 6 | 1 | -5 | -9 | -11 | -15 | -20 | -22 | -22 | -19 | -16 | 6 |
| -1 | 1 | 3 | 5 | 3 | -4 | -8 | -8 | -5 | -6 | -11 | -16 | -16 | -13 | -11 | -10 | -8 | -6 | 0 |
| 2 | 2 | 3 | 6 | 8 | 11 | 13 | 14 | 14 | 16 | 18 | 21 | 23 | 22 | 20 | 16 | 12 | 6 | 1 |
| -7 | -12 | -15 | -16 | -18 | -21 | -22 | -21 | -20 | -19 | -17 | -13 | -8 | -4 | -3 | -3 | -6 | -9 | -4 |
| -1 | -1 | 0 | 2 | 5 | 10 | 10 | 8 | 5 | 4 | 1 | -5 | -8 | -8 | -8 | -9 | -11 | -15 | -10 |
| -6 | -2 | 2 | 6 | 10 | 14 | 20 | 25 | 28 | 29 | 29 | 28 | 25 | 21 | 18 | 17 | 14 | 10 | 4 |
| -11 | -15 | -16 | -16 | -16 | -19 | -24 | -28 | -27 | -25 | -22 | -19 | -15 | -11 | -7 | -2 | 5 | 11 | 16 |
| 12 | 9 | 8 | 6 | 6 | 7 | 7 | 4 | 1 | -1 | -3 | -6 | -9 | -11 | -12 | -11 | -11 | -10 | -6 |
| 4 | 7 | 10 | 14 | 17 | 19 | 19 | 17 | 13 | 6 | -2 | -5 | -5 | -5 | -4 | -3 | -2 | -3 | -5 |
| -5 | -3 | -3 | -6 | -8 | -10 | -10 | -12 | -11 | -9 | -10 | -9 | -4 | -2 | -2 | -4 | -5 | -5 | -4 |
| -2 | 0 | 3 | 5 | 8 | 11 | 13 | 16 | 20 | 22 | 23 | 23 | 22 | 22 | 22 | 20 | 15 | 9 | 7 |
| 6 | 5 | 3 | 2 | -2 | -8 | -10 | -11 | -11 | -10 | -9 | -8 | -7 | -6 | -3 | 2 | 6 | 7 | 5 |
| 4 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 2 | 0 | -2 | -5 | -6 | -5 | -3 | 1 |
| 4 | 7 | 9 | 9 | 9 | 7 | 5 | 3 | 3 | 2 | 1 | 2 | 4 | 6 | 6 | 4 | 1 | -1 | -3 |
| -2 | 2 | 4 | 1 | -4 | -5 | -4 | -3 | -2 | -2 | -3 | -3 | -5 | -6 | -7 | -7 | -7 | -7 | -7 |
| -7 | -7 | -7 | -7 | -5 | -3 | -2 | -1 | 1 | 3 | 5 | 7 | 10 | 11 | 10 | 9 | 8 | 7 | 6 |
| 5 | 7 | 8 | 7 | 5 | 3 | 2 | 0 | -2 | -2 | -4 | -2 | 2 | 6 | 10 | 11 | 9 | 6 | 3 |
| -2 | -2 | -1 | 0 | 1 | 1 | 1 | -1 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 4 | 3 | 1 |
| -1 | 0 | 1 | 4 | 5 | 4 | 2 | 1 | 2 | 4 | 6 | 7 | 7 | 7 | 8 | 9 | 10 | 10 | 7 |
| 0 | 0 | 1 | 2 | 2 | -1 | -6 | -9 | -8 | -4 | -1 | -2 | -4 | -4 | -4 | -3 | -3 | -3 | -4 |
| -5 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -5 | -4 | -2 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 |
| 6 | 4 | 2 | 1 | 2 | 4 | 4 | 3 | 1 | 0 | -1 | -2 | -4 | -5 | -6 | -7 | -7 | -6 | -5 |
| -1 | 0 | -2 | -3 | -4 | -4 | -5 | -5 | -5 | -4 | -4 | -4 | -5 | -5 | -3 | -1 | 1 | 3 | 4 |
| 4 | -2 | -6 | -7 | -8 | -8 | -10 | -12 | -14 | -13 | -11 | -9 | -5 | -1 | 1 | 2 | 4 | 4 | 3 |
| 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 4 | 1 | 0 | -1 | -2 | -3 | -1 | 1 | 2 |
| 4 | 4 | 1 | 0 | -2 | -4 | -7 | -8 | -8 | -7 | -6 | -6 | -6 | -6 | -4 | -2 | -2 | 2 | 4 |
| 1 | -3 | -4 | -5 | -5 | -5 | -5 | -5 | -5 | -4 | -2 | -1 | -1 | -1 | 0 | -1 | -1 | -2 | -2 |
| -3 | -5 | -7 | -7 | -5 | -4 | -4 | -4 | -4 | -4 | -2 | -1 | -1 | -1 | 0 | 2 | 3 | 3 | 0 |
| -2 | -3 | -3 | -2 | -1 | 0 | 0 | 0 | 0 | 0 | -1 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -1 |
| -2 | -1 | -1 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | -3 | -3 | -3 | -3 | -1 |
| 2 | 2 | 0 | -2 | -5 | -6 | -6 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 2 | 4 | 4 |
| 4 | 3 | 3 | 2 | 1 | 1 | 0 | 0 | 2 | 3 | 4 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 3 |
| -1 | -3 | -4 | -4 | -4 | -4 | -3 | -3 | -2 | -1 | -1 | 0 | 0 | -1 | -3 | -4 | -4 | -4 | -4 |
| -3 | -3 | -3 | -2 | 0 | 2 | 3 | 4 | 5 | 5 | 4 | 4 | 3 | 1 | 1 | 1 | 1 | 2 | 2 |
| 1 | 0 | 0 | 0 | 0 | 0 | -2 | -3 | -5 | -6 | -5 | -4 | -4 | -3 | 0 | 1 | 1 | 1 | 1 |
| 0 | 0 | -1 | -2 | -2 | -3 | -3 | -3 | -2 | -1 | 0 | -1 | -1 | -2 | -2 | -2 | -2 | -1 | 0 |
| 0 | 0 | 0 | 2 | 2 | 1 | 1 | 2 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 5 |

[illegible]

IIV328 57.022.0
STATION NO. 78
INSTR PERIOD = 0.067 SEC
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1627 PST
SOUTHERN PACIFIC BLDG.-8SMT., SAN FRANCISCO, CAL.
DAMPING = 0.592
ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.
EPICENTER - 37 39 OON, 122 29 OOH
CCMP UP 37 48 OON, 122 24 OOH

PEAK VALS ACCLN = 2.8 CM/SEC/SEC AT 2.92 SEC VELO = -0.5 CM/SEC AT 13.74 SEC DISP = -0.5 CM AT 6.30 SEC

INITIAL VELO = 0.11553 CM/SEC INITIAL DISP = 0.02478 CM

1311 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2 | 0 | 6 | 8 | 2 | -4 | -8 | -4 | 3 | 11 | 17 | 15 | 6 | -2 | -7 | -9 | -6 | 2 | 8 | 7 |
| 4 | 0 | -1 | -1 | 2 | 8 | 12 | 8 | 0 | -11 | -18 | -15 | -12 | -10 | -3 | 3 | -1 | -8 | -11 | -9 |
| -4 | 3 | 2 | 1 | 5 | 6 | 3 | -1 | -7 | -11 | -12 | -6 | 1 | 6 | 9 | 9 | 4 | -1 | 3 | 3 |
| 11 | 11 | -3 | -8 | -14 | -7 | 1 | 3 | -2 | -3 | 3 | 10 | 13 | 11 | 5 | 0 | -2 | 0 | -1 | -6 |
| -9 | -7 | -5 | -8 | -11 | -7 | -2 | -2 | -2 | 2 | 8 | 14 | 15 | 10 | 5 | 9 | 11 | 7 | 5 | 7 |
| 10 | 10 | 5 | -1 | -9 | -15 | -20 | -22 | -19 | -12 | -10 | -8 | -5 | -3 | -2 | -20 | -21 | -17 | -13 | -13 |
| 12 | 11 | 8 | 3 | -2 | -7 | -11 | -10 | -11 | -15 | -20 | -21 | -18 | -16 | -17 | -11 | -15 | -15 | -18 | -20 |
| -14 | -11 | -2 | 6 | 14 | 24 | 28 | 23 | 17 | 10 | 4 | 0 | -4 | -7 | -10 | 10 | 5 | 0 | 0 | 1 |
| -22 | -21 | -17 | -12 | -7 | -5 | -1 | 5 | 10 | 14 | 20 | 25 | 24 | 19 | 14 | 10 | 15 | 20 | 22 | 19 |
| 2 | -2 | -9 | -13 | -14 | -13 | -13 | -17 | -18 | -16 | -13 | -9 | -5 | -1 | 5 | 10 | 15 | 20 | 22 | 19 |
| 12 | 5 | -1 | -4 | -5 | -2 | 0 | 1 | -1 | -5 | -6 | -4 | -3 | -1 | 1 | 3 | 7 | 11 | 10 | 8 |
| 7 | 8 | 8 | 7 | 3 | -1 | -4 | -6 | -7 | -7 | -5 | -1 | 3 | 5 | 6 | 7 | 7 | 6 | 6 | 8 |
| 12 | 14 | 13 | 11 | 10 | 10 | 9 | 7 | 5 | 3 | 1 | -2 | -5 | -6 | -5 | -5 | -5 | -4 | -2 | -3 |
| -6 | -4 | 2 | 7 | 7 | 3 | 0 | -3 | -3 | 0 | 8 | 9 | 10 | 10 | 10 | 9 | 8 | 6 | 4 | 2 |
| -5 | -3 | -3 | -5 | -6 | -4 | -1 | -3 | -4 | 6 | 3 | 6 | 7 | 6 | 4 | 3 | 4 | 5 | 6 | 6 |
| -1 | -1 | -1 | 0 | 0 | -1 | -3 | -4 | -4 | -1 | 3 | 0 | -5 | -4 | 0 | 3 | 4 | 4 | 3 | 2 |
| 7 | 8 | 9 | 8 | 6 | 4 | 2 | 7 | 8 | 8 | 10 | 11 | 8 | 6 | 7 | 8 | 7 | 6 | 5 | 3 |
| 0 | 1 | 4 | 6 | 5 | 4 | 5 | 7 | 8 | 8 | 3 | 3 | 3 | 5 | 6 | 6 | 6 | 7 | 6 | 4 |
| 1 | -2 | -4 | -7 | -10 | -10 | -6 | -2 | 1 | 3 | 3 | -5 | -3 | -1 | -4 | -9 | -9 | -7 | -8 | -11 |
| 5 | 7 | 7 | 5 | 4 | 2 | 2 | 3 | 1 | -2 | -4 | -5 | -3 | -1 | -4 | -9 | -9 | -7 | -8 | -11 |
| -12 | -9 | -6 | -5 | -6 | -7 | -7 | -5 | -4 | -6 | -7 | -3 | 1 | 3 | 3 | 2 | 0 | -3 | -5 | -5 |
| -4 | -1 | 2 | 5 | 5 | 4 | 2 | 1 | 0 | -2 | -3 | -4 | -2 | -2 | -5 | -6 | -4 | -1 | -1 | -3 |
| -6 | -1 | -4 | -3 | -4 | -6 | -6 | -3 | -1 | -2 | -4 | -3 | 0 | 1 | -1 | -1 | 1 | 1 | 0 | 0 |
| 0 | 0 | 1 | 1 | 0 | 1 | 5 | 6 | 1 | 4 | 1 | 3 | 1 | -2 | 2 | 5 | 2 | -3 | -2 | 3 |
| 4 | 0 | -4 | -2 | 1 | 2 | 2 | 1 | 4 | 6 | 4 | 2 | 3 | 5 | 3 | 0 | 0 | 3 | 5 | 4 |
| 2 | 1 | 0 | -1 | -2 | -3 | -2 | 1 | 2 | 2 | 2 | -1 | -4 | -3 | -2 | 0 | 2 | 2 | 2 | 1 |
| 0 | -2 | -4 | -4 | -1 | -1 | -5 | -7 | -6 | -5 | -4 | -4 | -5 | -6 | -8 | -7 | -6 | -4 | -3 | -2 |
| -1 | 1 | 2 | 0 | -2 | -2 | 0 | 1 | 0 | -1 | -4 | 0 | 0 | -1 | -3 | -2 | 0 | 2 | 3 | 4 |
| 3 | 2 | 1 | -2 | -5 | -5 | -4 | -3 | -3 | -4 | -5 | -4 | -3 | -1 | 1 | 3 | 5 | 6 | 6 | 5 |
| 4 | 1 | -1 | -2 | 0 | 0 | -2 | -4 | -5 | -5 | -4 | -3 | -2 | 0 | 1 | 3 | 5 | 6 | 6 | 7 |
| 5 | 3 | 2 | 2 | 2 | 1 | 0 | 1 | -1 | -2 | -4 | -3 | -2 | 0 | 1 | 3 | 5 | 6 | 7 | 7 |
| -6 | -7 | -7 | -6 | -5 | -4 | -2 | 1 | -2 | -2 | -3 | -4 | -4 | -2 | -2 | -4 | -6 | -6 | -6 | -6 |
| -3 | 0 | 1 | 1 | 0 | -1 | -2 | -3 | -3 | -5 | -8 | -11 | -12 | -12 | -12 | -12 | -10 | -10 | -8 | -4 |
| -11 | -11 | -6 | -3 | -3 | -4 | -4 | -1 | 2 | 2 | 0 | -1 | -3 | -5 | -7 | -6 | -3 | -1 | -1 | -9 |
| 2 | 0 | -2 | -4 | -3 | -2 | -1 | 0 | 2 | 4 | 6 | 8 | 8 | 7 | 5 | 2 | 0 | -1 | -2 | -2 |
| -2 | -2 | 2 | 2 | -2 | 2 | 2 | 2 | 1 | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 9 | 10 | 7 |
| 3 | 4 | 0 | -1 | 1 | 2 | 1 | 2 | 0 | 2 | 4 | 4 | 3 | 3 | 4 | 5 | 4 | 3 | 1 | 3 |
| 6 | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 5 |
| 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 3 | 5 | 7 | 8 | 8 | 7 | 7 | 6 | 5 | 4 |
| 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | -1 | 0 | 2 | 3 | 2 | 1 | 1 | 2 | 4 | 4 | 4 |
| 2 | 0 | -2 | 0 | 0 | -3 | -4 | -3 | -1 | 2 | 2 | 2 | 3 | 4 | 4 | 2 | 2 | 2 | -2 | -2 |
| -1 | 1 | 2 | 2 | 2 | 1 | -1 | -1 | -3 | -3 | -3 | -2 | -1 | 0 | 0 | 1 | 1 | 1 | 1 | 2 |
| 3 | 4 | 4 | 2 | 0 | -1 | -2 | -1 | -3 | -3 | -4 | -4 | -2 | -2 | -1 | 2 | 2 | 2 | 1 | 0 |
| 0 | 1 | 4 | 2 | 0 | -1 | -2 | -1 | -3 | -3 | -4 | -4 | -2 | -2 | -1 | 1 | 1 | 1 | 1 | 3 |

| | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|---|---|
| 1 | -2 | -9 | 0 | 0 | 2 | -4 | 5 | 3 | 2 | 3 | 0 | -1 | 4 | -1 | -7 | -7 | -3 | -6 | 3 | 4 |
| 0 | -4 | -9 | 0 | 0 | 4 | -6 | 4 | 3 | 2 | 3 | -1 | 0 | 4 | -2 | -7 | -7 | -4 | -4 | 3 | 4 |
| 0 | -4 | -8 | 0 | -1 | 4 | -7 | 4 | 3 | 1 | 3 | 0 | 0 | 4 | -1 | -7 | -6 | -4 | -3 | 3 | 4 |
| 0 | -2 | -8 | 0 | -2 | 3 | -5 | 3 | 3 | 0 | 3 | 1 | 0 | 4 | 0 | -5 | -6 | -3 | -2 | 3 | 4 |
| 1 | 0 | -8 | 0 | -3 | 3 | -3 | 2 | 4 | 0 | 3 | 1 | 0 | 4 | 1 | -4 | -5 | -2 | -1 | 3 | 4 |
| 2 | 2 | -7 | 0 | -4 | 2 | -2 | 2 | 4 | -1 | 2 | 2 | 0 | 3 | 1 | -3 | -5 | -2 | 0 | 3 | 4 |
| 1 | 2 | -6 | 0 | -5 | 1 | -1 | 2 | 4 | 0 | 2 | 2 | -2 | 1 | 1 | -2 | -5 | -2 | 0 | 4 | 4 |
| 0 | 1 | -6 | 0 | -6 | 1 | -1 | 2 | 4 | 0 | 2 | 3 | -2 | 0 | 1 | -2 | -5 | -1 | 1 | 4 | 4 |
| -1 | 0 | -5 | 0 | -7 | 0 | 0 | 2 | 4 | 1 | 2 | 4 | -2 | -1 | 1 | -2 | -5 | -1 | 1 | 5 | 4 |
| 0 | -1 | -4 | 0 | -8 | -1 | 1 | 2 | 4 | 1 | 2 | 4 | -1 | -3 | 1 | -2 | -4 | 0 | 1 | 6 | 4 |
| 1 | -1 | -2 | 0 | -8 | -3 | 1 | 2 | 4 | 1 | 1 | 3 | 0 | -5 | -1 | -1 | -2 | 0 | 1 | 6 | 4 |
| 2 | 0 | 0 | -5 | -3 | -3 | -1 | 2 | 5 | 1 | 1 | 0 | 2 | -6 | 1 | 0 | -1 | 1 | 0 | 4 | 4 |
| 2 | 1 | 0 | 0 | -2 | -3 | -2 | 2 | 5 | 1 | 0 | 1 | 2 | -6 | 0 | 0 | -1 | 1 | 0 | 4 | 4 |
| 2 | 1 | 0 | -2 | -3 | -3 | -2 | 2 | 6 | 1 | 1 | 1 | -5 | -1 | 1 | 1 | -3 | 0 | -1 | 4 | 4 |
| 1 | 1 | -1 | -4 | -3 | -2 | -1 | 2 | 7 | 1 | -2 | 1 | -5 | -2 | -2 | 1 | -4 | -2 | -1 | 4 | 4 |
| 0 | 1 | -2 | -5 | -4 | -1 | 0 | 2 | 8 | 2 | -2 | 2 | 0 | -5 | -2 | 1 | -5 | -4 | -1 | 4 | 4 |
| -1 | 1 | -2 | -6 | -4 | 0 | -1 | 1 | 8 | 3 | 1 | 2 | 1 | -5 | -3 | 1 | -6 | -6 | -1 | 4 | 4 |
| -2 | 1 | -1 | -7 | -3 | 1 | -3 | 1 | 8 | 4 | 2 | 2 | 2 | -4 | -3 | 1 | -6 | -7 | -1 | 4 | 4 |
| -2 | 1 | -1 | -8 | -1 | 2 | -4 | 0 | 8 | 4 | 2 | 3 | 3 | -3 | -1 | 1 | -7 | -7 | -1 | 4 | 4 |
| 0 | 1 | -1 | -8 | 0 | 1 | -1 | -2 | 7 | 3 | 2 | 3 | 2 | -2 | -1 | 0 | -7 | -7 | -2 | 3 | 4 |

IIV329 57.023.0 SOUTHERN CALIFORNIA EARTHQUAKE MAR 18, 1957 - 1056 PST EPICENTER - 34 06 00N, 119 10 00W
STATION NO. 272 NAVY RESEARCH & EVALUATION LAB., PORT HUENEME, CAL. COMP SOUT 34 09 00N, 119 12 00W
INSTR PERIOD = 0.075 SEC DAMPING = 0.552 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACIN = -163.6 CM/SEC/SEC AT 0.24 SEC VELO = -17.9 CM/SEC AT 0.36 SEC DISP = 4.0 CM AT 0.22 SEC

3448 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
INITIAL VELO = 5.10751 CM/SEC INITIAL DISP = 2.59172 CM

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 859 | 646 | 491 | 240 | -11 | -170 | -297 | -460 | -738 | -1090 | -1396 | -1569 | -1636 | -1607 | -1476 | -1241 | -986 | -628 | -45 | 466 |
| 807 | 1010 | 1129 | 1185 | 1085 | 718 | 155 | -127 | -201 | -233 | -254 | -172 | -15 | 155 | 281 | 326 | 329 | 314 | 274 | 191 |
| 100 | 30 | -25 | -60 | -131 | -124 | 7 | 241 | 413 | 380 | 216 | 65 | -32 | -90 | -108 | -125 | -166 | -162 | -115 | -76 |
| -45 | 22 | 144 | 254 | 297 | 241 | 109 | -19 | -69 | -26 | 23 | 2 | -74 | -127 | -109 | -14 | 72 | 86 | 42 | 10 |
| 13 | 1 | -30 | -45 | -25 | 8 | 35 | 24 | -49 | -115 | -144 | -157 | -157 | -141 | -106 | -63 | -12 | 47 | 96 | 129 |
| 156 | 184 | 185 | 148 | 78 | 5 | -31 | 13 | 98 | 158 | 157 | 92 | 43 | 44 | 86 | 116 | 107 | 71 | 30 | -23 |
| -83 | -121 | -117 | -95 | -74 | -61 | -60 | -70 | -89 | -102 | -103 | -96 | -92 | -81 | -42 | 39 | 122 | 178 | 212 | 229 |
| 232 | 198 | 116 | 12 | -65 | -107 | -114 | -96 | -65 | -26 | 15 | 52 | 84 | 111 | 120 | 101 | 68 | 43 | 41 | 40 |
| 31 | 15 | 13 | 27 | 41 | 33 | -17 | -91 | -153 | -175 | -159 | -134 | -134 | -151 | -159 | -137 | -99 | -54 | -12 | 24 |
| 54 | 75 | 86 | 108 | 150 | 194 | 237 | 255 | 198 | 79 | -47 | -142 | -167 | -145 | -125 | -109 | -86 | -33 | 25 | 49 |
| 22 | -43 | -98 | -126 | -114 | -69 | 6 | 96 | 163 | 204 | 244 | 311 | 390 | 436 | 402 | 308 | 200 | 87 | -18 | -108 |
| -147 | -142 | -119 | -91 | -64 | -44 | -33 | -29 | -39 | -68 | -115 | -167 | -211 | -228 | -194 | -113 | -8 | 88 | 149 | 186 |
| 197 | 182 | 151 | 106 | 55 | 4 | -37 | -58 | -74 | -97 | -119 | -117 | -80 | -37 | -12 | -11 | -28 | -30 | -9 | 14 |
| 30 | 33 | 8 | -45 | -113 | -172 | -203 | -189 | -144 | -100 | -57 | -12 | 25 | 62 | 93 | 113 | 99 | 59 | 12 | -25 |
| -35 | -29 | -22 | -19 | 5 | 45 | 88 | 106 | 91 | 54 | 13 | -15 | -24 | -24 | -31 | -31 | 0 | 50 | 108 | 145 |
| 160 | 138 | 89 | 30 | -28 | -69 | -96 | -109 | -110 | -91 | -56 | -17 | 23 | 63 | 92 | 101 | 85 | 52 | 22 | 0 |
| -19 | -41 | -69 | -94 | -104 | -89 | -62 | -34 | -15 | -6 | 3 | 15 | 30 | 36 | 33 | 27 | 23 | 34 | 64 | 88 |
| 83 | 46 | -5 | -47 | -70 | -74 | -66 | -64 | -78 | -97 | -100 | -83 | -56 | -22 | 17 | 57 | 90 | 100 | 82 | 51 |
| 17 | -11 | -30 | -45 | -49 | -38 | -14 | 18 | 44 | 58 | 63 | 59 | 50 | 39 | 28 | 15 | -5 | -21 | -30 | -33 |
| -32 | -31 | -28 | -26 | -24 | -29 | -42 | -59 | -77 | -79 | -61 | -34 | -3 | 19 | 40 | 56 | 64 | 57 | 35 | -2 |
| -43 | -76 | -91 | -94 | -95 | -98 | -101 | -100 | -89 | -69 | -43 | -14 | 8 | 20 | 26 | 33 | 48 | 72 | 97 | 119 |
| 131 | 125 | 109 | 85 | 52 | 17 | -15 | -33 | -46 | -50 | -43 | -32 | -18 | -3 | 20 | 47 | 73 | 85 | 73 | 47 |
| 22 | -6 | -27 | -43 | -51 | -49 | -41 | -32 | -27 | -27 | -26 | -23 | -18 | -12 | -3 | 7 | 17 | 30 | 43 | 50 |
| 45 | 26 | -3 | -41 | -74 | -85 | -77 | -54 | -30 | -7 | 11 | 19 | 16 | 6 | -6 | -12 | -16 | -15 | -19 | -28 |
| -39 | -37 | -22 | 0 | 22 | 36 | 37 | 26 | 13 | -1 | -11 | -18 | -22 | -27 | -34 | -42 | -35 | -13 | 9 | 26 |
| 29 | 21 | 12 | 4 | 0 | -1 | -3 | -7 | -11 | -16 | -21 | -25 | -28 | -29 | -29 | -26 | -22 | -25 | -32 | -39 |
| -45 | -49 | -45 | -38 | -27 | -14 | -2 | 5 | 8 | 8 | 9 | 11 | 17 | 26 | 34 | 35 | 23 | 8 | -9 | -21 |
| -25 | -27 | -30 | -36 | -46 | -50 | -42 | -27 | -6 | 15 | 31 | 39 | 36 | 29 | 21 | 12 | 7 | 10 | 13 | 13 |
| 8 | 5 | 1 | 2 | 9 | 12 | 9 | 3 | -1 | 2 | 8 | 14 | 17 | 13 | 5 | -1 | -3 | -4 | -5 | -7 |
| -11 | -17 | -27 | -40 | -50 | -53 | -49 | -43 | -36 | -31 | -27 | -24 | -20 | -16 | -12 | -8 | -5 | 1 | 9 | 20 |
| 32 | 38 | 41 | 38 | 32 | 27 | 22 | 17 | 13 | 7 | 1 | -5 | -12 | -20 | -29 | -36 | -41 | -45 | -48 | -49 |
| -45 | -40 | -32 | -25 | -19 | -17 | -19 | -25 | -32 | -40 | -46 | -51 | -44 | -28 | -8 | 15 | 39 | 62 | 81 | 94 |
| 98 | 92 | 83 | 72 | 61 | 49 | 45 | 42 | 35 | 19 | -5 | -24 | -40 | -53 | -62 | -64 | -60 | -53 | -45 | -47 |
| -54 | -59 | -56 | -45 | -30 | -15 | -7 | 0 | 5 | 9 | 13 | 15 | 18 | 23 | 27 | 28 | 26 | 25 | 25 | 29 |
| 35 | 42 | 44 | 42 | 38 | 32 | 26 | 19 | 11 | 1 | -10 | -19 | -26 | -24 | -14 | -3 | 7 | 13 | 15 | 14 |
| 11 | 6 | -1 | -6 | -9 | -10 | -9 | -9 | -8 | -8 | -7 | -5 | -4 | -6 | -7 | -7 | -6 | -6 | -8 | -11 |
| -13 | -14 | -15 | -15 | -15 | -13 | -11 | -8 | -6 | -4 | -8 | -16 | -25 | -32 | -31 | -23 | -11 | 2 | 16 | 27 |
| 35 | 42 | 47 | 49 | 47 | 41 | 30 | 17 | 3 | -10 | -21 | -31 | -38 | -42 | -42 | -39 | -32 | -24 | -16 | -8 |
| -1 | 7 | 16 | 23 | 30 | 34 | 33 | 27 | 16 | 3 | -14 | -29 | -40 | -43 | -37 | -25 | -11 | 3 | 20 | 35 |
| 44 | 45 | 43 | 39 | 32 | 22 | 13 | 6 | 1 | 0 | 3 | 5 | 2 | -2 | -8 | -11 | -10 | -4 | 0 | 4 |
| 5 | 6 | 7 | 11 | 14 | 17 | 19 | 21 | 24 | 26 | 29 | 32 | 31 | 26 | 18 | 6 | -12 | -30 | -43 | -50 |
| -46 | -34 | -17 | 3 | 21 | 32 | 40 | 43 | 41 | 36 | 30 | 21 | 10 | 1 | -4 | -5 | -4 | -3 | -2 | -2 |
| -2 | -3 | -5 | -9 | -14 | -19 | -23 | -23 | -20 | -15 | -7 | 3 | 8 | 5 | 0 | -7 | -14 | -20 | -25 | -28 |
| -30 | -28 | -23 | -15 | -7 | 2 | 12 | 21 | 29 | 32 | 33 | 30 | 25 | 18 | 12 | 6 | 1 | 1 | 4 | 10 |

[illegible]

| | | | | | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|----|----|----|
| 1 | 2 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | 1 | 0 | 0 | -1 |
| -3 | -4 | -5 | -6 | -6 | -8 | -8 | -8 | -9 | -9 | -9 | -9 | -9 | -10 | -10 | -10 | -10 | -6 | -5 | -3 | -1 |
| 0 | 2 | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 3 | 3 | -1 |
| -8 | -9 | -9 | -7 | -6 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | 1 | 0 | 0 | -8 |
| 9 | 10 | 11 | 12 | 13 | 12 | 11 | 11 | 10 | 10 | 9 | 8 | 7 | 7 | 7 | 7 | 7 | 1 | 0 | 0 | -4 |
| -5 | -5 | -6 | -7 | -7 | -8 | -8 | -9 | -9 | -9 | -8 | -7 | -4 | -3 | -3 | -3 | -3 | 1 | 2 | 3 | -3 |
| 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 3 | 2 | 2 | 1 | 0 | -1 | -2 | -3 | -3 |
| -3 | -4 | -4 | -5 | -5 | -5 | -5 | -5 | -4 | -4 | -3 | -2 | -2 | -2 | -2 | -2 | -2 | 0 | 1 | 3 | 4 |
| 4 | 5 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 6 | 6 | 5 | 4 |
| 1 | 0 | -2 | -3 | -3 | -4 | -4 | -4 | -5 | -5 | -5 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 |
| -4 | -4 | -4 | -4 | -4 | -4 | -5 | -5 | -4 | -4 | -4 | -3 | -3 | -3 | -3 | -3 | -2 | -1 | -1 | 0 | -4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 0 | 0 |
| 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 6 | 7 | 3 |
| 9 | 9 | 9 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 7 | 6 | 4 | 4 | 4 | 4 | 1 | 0 | -2 | -3 | 8 |
| -7 | -8 | -10 | -9 | -9 | -8 | -8 | -8 | -7 | -6 | -5 | -4 | -3 | -3 | -3 | -2 | 0 | -1 | -3 | -4 | -5 |
| 2 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 5 | 4 | 4 | 4 | 4 | 2 | 0 | -2 | -4 | -6 | 1 |
| -9 | -10 | -11 | -12 | -12 | -12 | -12 | -12 | -11 | -11 | -10 | -10 | -9 | -9 | -9 | -8 | -7 | -7 | -5 | -5 | -4 |
| -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -3 | -3 | -3 | -2 | -2 | -2 | -2 | -2 | -2 | 6 | 6 | 6 | 6 |
| 6 | 5 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | -3 | -3 | -4 | -4 |
| -3 | -3 | -1 | -1 | -1 | -1 | 0 | 0 | 2 | 2 | 3 | 2 | 1 | -1 | -2 | -3 | -5 | 6 | 6 | 6 | -4 |

IIV329 57.023.0 SOUTHERN CALIFORNIA EARTHQUAKE MAR 18, 1957 - 1056 PST EPICENTER - 34 06 00N, 119 10 00W
 STATION NO. 272 NAVY RESEARCH & EVALUATION LAB., PORT HUENEME, CAL. COMP WEST 34 09 00N, 119 12 00W
 INSTR PERIOD = 0.077 SEC DAMPING = 0.690 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = 86.9 CM/SEC/SEC AT 0.10 SEC VELO = 8.9 CM/SEC AT 0.40 SEC DISP = 2.6 CM AT 2.74 SEC

3444 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
 INITIAL VELO = -3.70263 CM/SEC INITIAL DISP = -2.04607 CM

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|
| -298 | -84 | 204 | 471 | 725 | 869 | 860 | 691 | 467 | 255 | 181 | 207 | 246 | 265 | 217 | 196 | 225 | 239 | 173 | 38 |
| -32 | -20 | -23 | -168 | -360 | -495 | -448 | -335 | -194 | -49 | -13 | -57 | -171 | -291 | -299 | -250 | -205 | -159 | -115 | -84 |
| -97 | -111 | -82 | -36 | 7 | 34 | 48 | -7 | -82 | -57 | 29 | 102 | 138 | 113 | 49 | 14 | 12 | -5 | -52 | -53 |
| 26 | 84 | 94 | 55 | -16 | -93 | -171 | -180 | -92 | -71 | -73 | -39 | -27 | -76 | -138 | -163 | -133 | -77 | 0 | 77 |
| 109 | 109 | 113 | 131 | 147 | 127 | 85 | 24 | -33 | -43 | -7 | 31 | 30 | 20 | 31 | 27 | -13 | -43 | -43 | -21 |
| 28 | 75 | 93 | 68 | 5 | -69 | -118 | -136 | -115 | -63 | -32 | -24 | -21 | -41 | -95 | -143 | -151 | -52 | 73 | 109 |
| 43 | -14 | 9 | 87 | 140 | 159 | 141 | 109 | 53 | 11 | 2 | -8 | -40 | -79 | -117 | -128 | -133 | -148 | -137 | -90 |
| -30 | 27 | 70 | 69 | 23 | -14 | -33 | -47 | -46 | -30 | -12 | -29 | -79 | -84 | -20 | 45 | 85 | 67 | 10 | -27 |
| -45 | -49 | -37 | 2 | 71 | 137 | 164 | 132 | 17 | -78 | -93 | -63 | -10 | 42 | 56 | 27 | -1 | -5 | -4 | -29 |
| -81 | -108 | -96 | -77 | -65 | -59 | -46 | -17 | 6 | 13 | 14 | 10 | 8 | 8 | 23 | 45 | 53 | 57 | 76 | 97 |
| 101 | 65 | 4 | -49 | -77 | -74 | -46 | 6 | 56 | 79 | 73 | 42 | 8 | -24 | -57 | -98 | -130 | -126 | -116 | -112 |
| -122 | -130 | -126 | -104 | -80 | -62 | -42 | -10 | 29 | 67 | 96 | 114 | 106 | 65 | 21 | 12 | 40 | 83 | 111 | 123 |
| 114 | 86 | 75 | 92 | 107 | 83 | 45 | 11 | -32 | -85 | -121 | -116 | -87 | -60 | -64 | -94 | -137 | -170 | -170 | -131 |
| -46 | 47 | 90 | 89 | 61 | 36 | 16 | 0 | -14 | -24 | -27 | -21 | -3 | 25 | 59 | 102 | 134 | 148 | 160 | 168 |
| 154 | 108 | 51 | 10 | -1 | 8 | 6 | -14 | -34 | -47 | -49 | -45 | -58 | -91 | -130 | -166 | -182 | -191 | -186 | -159 |
| -117 | -74 | -39 | -19 | -11 | -74 | 0 | 32 | 70 | 93 | 85 | 74 | 73 | 79 | 92 | 104 | 114 | 114 | 107 | 82 |
| 48 | -3 | -59 | -83 | -73 | -45 | -16 | 3 | 11 | 4 | -12 | -31 | -56 | -81 | -102 | -116 | -115 | -101 | -80 | -45 |
| -2 | 35 | 59 | 65 | 55 | 42 | 36 | 40 | 54 | 69 | 82 | 91 | 91 | 72 | 43 | 13 | -1 | 7 | 28 | 53 |
| 54 | 18 | -21 | -51 | -64 | -66 | -59 | -45 | -29 | -15 | -3 | 5 | -3 | -15 | -17 | -5 | 10 | 19 | 15 | -1 |
| -8 | 11 | 46 | 66 | 58 | 32 | 13 | -8 | -20 | -16 | -10 | -5 | 2 | 12 | 23 | 41 | 64 | 87 | 100 | 95 |
| 73 | 43 | 13 | -11 | -30 | -49 | -66 | -77 | -80 | -77 | -74 | -71 | -66 | -45 | -8 | 33 | 62 | 66 | 43 | 13 |
| 5 | 18 | 35 | 47 | 49 | 41 | 29 | 15 | 3 | -9 | -24 | -34 | -48 | -68 | -84 | -88 | -86 | -68 | -35 | 0 |
| 26 | 36 | 32 | 22 | 16 | 15 | 18 | 27 | 38 | 49 | 55 | 48 | 38 | 29 | 22 | 16 | 7 | -8 | -25 | -33 |
| -27 | -14 | -2 | 4 | 8 | 8 | 6 | 2 | -2 | -11 | -25 | -34 | -28 | -15 | -2 | 7 | 9 | 10 | 17 | 32 |
| 49 | 63 | 73 | 77 | 70 | 51 | 29 | 8 | -3 | 0 | 9 | 23 | 37 | 49 | 51 | 40 | 21 | 2 | -25 | -53 |
| -64 | -66 | -62 | -64 | -72 | -80 | -81 | -72 | -53 | -32 | -14 | 4 | 25 | 38 | 46 | 43 | 32 | 11 | -8 | -15 |
| -14 | -9 | -1 | 7 | 16 | 24 | 32 | 38 | 43 | 45 | 41 | 31 | 17 | 2 | -8 | -12 | -15 | -16 | -16 | -14 |
| -11 | -5 | -1 | 4 | 5 | 1 | -1 | 2 | 10 | 19 | 27 | 32 | 36 | 35 | 32 | 28 | 25 | 25 | 27 | 27 |
| 22 | 16 | 10 | 7 | 10 | 15 | 20 | 24 | 22 | 8 | -10 | -24 | -33 | -39 | -43 | -44 | -42 | -41 | -41 | -41 |
| -40 | -35 | -28 | -17 | -1 | 13 | 23 | 27 | 27 | 26 | 25 | 23 | 23 | 24 | 26 | 25 | 19 | 13 | 8 | 7 |
| 7 | 3 | -4 | -10 | -6 | 7 | 20 | 27 | 26 | 20 | 13 | 9 | 6 | -1 | -13 | -28 | -39 | -43 | -38 | -25 |
| -11 | 4 | 15 | 21 | 26 | 31 | 33 | 33 | 30 | 23 | 14 | 10 | 9 | 8 | 8 | 8 | 6 | 4 | -4 | -17 |
| -29 | -39 | -43 | -41 | -35 | -27 | -10 | 5 | 21 | 38 | 49 | 52 | 46 | 36 | 21 | 6 | -6 | -16 | -23 | -27 |
| -27 | -24 | -23 | -23 | -20 | -16 | -11 | -6 | -1 | 2 | -1 | -5 | -9 | -12 | -13 | -11 | -8 | -5 | 0 | 7 |
| 12 | 17 | 20 | 20 | 18 | 15 | 11 | 8 | 3 | -5 | -17 | -27 | -43 | -55 | -58 | -55 | -46 | -31 | -13 | 9 |
| 28 | 41 | 49 | 53 | 49 | 39 | 31 | 29 | 26 | 22 | 18 | 13 | 7 | 2 | -2 | -10 | -20 | -30 | -38 | -36 |
| -30 | -18 | -6 | 5 | 13 | 19 | 16 | 7 | -2 | -12 | -23 | -31 | -37 | -33 | -27 | -22 | -18 | -13 | -7 | 3 |
| 10 | 14 | 14 | 9 | 2 | -8 | -15 | -20 | -20 | -14 | -5 | 4 | 13 | 22 | 28 | 28 | 26 | 28 | 28 | 26 |
| 22 | 16 | 8 | -1 | -9 | -12 | -6 | 2 | 10 | 18 | 22 | 18 | 13 | 6 | 0 | -7 | -12 | -18 | -22 | -25 |
| -24 | -16 | -5 | 3 | 8 | 13 | 15 | 11 | 3 | -4 | -10 | -14 | -13 | -10 | 0 | 12 | 24 | 31 | 31 | 27 |
| 23 | 21 | 21 | 14 | 3 | -9 | -21 | -29 | -31 | -28 | -22 | -16 | -8 | -3 | 0 | 2 | 1 | -3 | -9 | -18 |
| -23 | -26 | -27 | -26 | -23 | -19 | -16 | -11 | -6 | 1 | 5 | 6 | 5 | 4 | 3 | 3 | -1 | -7 | -12 | -15 |
| -13 | -7 | 0 | 8 | 15 | 18 | 17 | 9 | 2 | -3 | -5 | -5 | -4 | -4 | -4 | -2 | 0 | 5 | 10 | 13 |
| 15 | 12 | 9 | 6 | 4 | 6 | 9 | 11 | 12 | 11 | 9 | 6 | 3 | 0 | -6 | -15 | -19 | -21 | -19 | -15 |

[illegible]

IIV329 57.023.0 SOUTHERN CALIFORNIA EARTHQUAKE MAR 18, 1957 - 1056 PST EPICENTER - 34 06 00N, 119 10 00W
 STATION NO. 272 NAVY RESEARCH & EVALUATION LAB., PORT HUENEME, CAL. COMP UP 34 09 00N, 119 12 00W
 INSTR PERIOD = 0.077 SEC DAMPING = 0.607 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -24.7 CM/SEC/SEC AT 1.00 SEC VELO = 1.9 CM/SEC AT 0.88 SEC DISP = -0.5 CM AT 13.88 SEC

INITIAL VELO = -0.10446 CM/SEC INITIAL DISP = -0.11088 CM

3448 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-----|-----|------|------|-----|
| 53 | 103 | 70 | 64 | 118 | 76 | -31 | -81 | -10 | -2 | -24 | 10 | 46 | 24 | -21 | -83 | -84 | -52 | -93 | -89 |
| -65 | -56 | -32 | -21 | -38 | -26 | 2 | 6 | 18 | 2 | -48 | -31 | 48 | 86 | 84 | 66 | 120 | 202 | 243 | 194 |
| 106 | 70 | 77 | 48 | -4 | 0 | -48 | -139 | -192 | -242 | -247 | -220 | -158 | -63 | -27 | -35 | -30 | -23 | -28 | -43 |
| -44 | -19 | 13 | 24 | 43 | 79 | 92 | 109 | 151 | 140 | 133 | 143 | 126 | 100 | 87 | 32 | -53 | -111 | -110 | -78 |
| -70 | -80 | -67 | -25 | 9 | 9 | 11 | 6 | -12 | -27 | -38 | -46 | -53 | -55 | -51 | -57 | -64 | -36 | -5 | 16 |
| 70 | 116 | 114 | 91 | 68 | 51 | 57 | 51 | 3 | -27 | -35 | -34 | -36 | -37 | -26 | -12 | -21 | -33 | -36 | -29 |
| -21 | -29 | -49 | -46 | -21 | 8 | 5 | -26 | -52 | -71 | -75 | -53 | -32 | -13 | -1 | 17 | 36 | 50 | 40 | 27 |
| 12 | -1 | -7 | 11 | 49 | 93 | 115 | 101 | 75 | 65 | 65 | 47 | 10 | -36 | -63 | -74 | -65 | -46 | -38 | -31 |
| -20 | -6 | -1 | -8 | -18 | -25 | -27 | -20 | -10 | -3 | 4 | 6 | 2 | 7 | 28 | 51 | 55 | 37 | 8 | -11 |
| -2 | 9 | 6 | -9 | -22 | -33 | -34 | -24 | -19 | -22 | -21 | -20 | -21 | -15 | -13 | -19 | -22 | -10 | 5 | 8 |
| -2 | 1 | 17 | 37 | 54 | 55 | 46 | 36 | 28 | 22 | 11 | -8 | -27 | -27 | -4 | 7 | -8 | -23 | -24 | -21 |
| -18 | -22 | -28 | -31 | -29 | -22 | -12 | -2 | 12 | 30 | 50 | 56 | 52 | 44 | 34 | 23 | 4 | -20 | -33 | -28 |
| -23 | -25 | -27 | -24 | -22 | -23 | -15 | 9 | 36 | 59 | 60 | 47 | 37 | 30 | 32 | 41 | 47 | 51 | 53 | 53 |
| 48 | 39 | 26 | 9 | -13 | -35 | -51 | -48 | -47 | -55 | -52 | -36 | -21 | -13 | -12 | -7 | 1 | 5 | 4 | 6 |
| 9 | 10 | 4 | -6 | -16 | -17 | -1 | 17 | 25 | 22 | 17 | 11 | 2 | -6 | -8 | -6 | -4 | -9 | -15 | -23 |
| -34 | -40 | -34 | -21 | -8 | 4 | 16 | 28 | 39 | 47 | 46 | 37 | 28 | 16 | 4 | -4 | -6 | -2 | 2 | -1 |
| -9 | -21 | -28 | -32 | -33 | -33 | -33 | -34 | -34 | -31 | -26 | -16 | -7 | -1 | 12 | 23 | 33 | 41 | 37 | 26 |
| 15 | 9 | 12 | 21 | 33 | 29 | 12 | -2 | -12 | -17 | -20 | -19 | -13 | -11 | -16 | -21 | -23 | -17 | -11 | -7 |
| -7 | -6 | -3 | 0 | 1 | 1 | 5 | 11 | 13 | 11 | 4 | -4 | -10 | -10 | -11 | -14 | -15 | -16 | -19 | -21 |
| -15 | -5 | 7 | 19 | 29 | 32 | 25 | 15 | 2 | -7 | -15 | -21 | -26 | -30 | -33 | -36 | -39 | -40 | -40 | -37 |
| -32 | -23 | -12 | -4 | 4 | 16 | 26 | 32 | 30 | 24 | 17 | 11 | 5 | -2 | -9 | -4 | 10 | 25 | 36 | 43 |
| 41 | 33 | 24 | 16 | 11 | 8 | 4 | 2 | 5 | 10 | 15 | 17 | 20 | 24 | 23 | 15 | 9 | 6 | 9 | 9 |
| 4 | -3 | -11 | -13 | -8 | -5 | -7 | -11 | -15 | -18 | -22 | -21 | -14 | -5 | 1 | 2 | -2 | -5 | -8 | -11 |
| -14 | -14 | -12 | -11 | -12 | -14 | -16 | -14 | -5 | 8 | 18 | 32 | 46 | 54 | 50 | 35 | 22 | 12 | 5 | 4 |
| 0 | -11 | -21 | -29 | -34 | -32 | -26 | -17 | -9 | -3 | 1 | 4 | 6 | 7 | 7 | 7 | 6 | 4 | 1 | -3 |
| -7 | -7 | -2 | 2 | 3 | 0 | -4 | -10 | -17 | -24 | -30 | -31 | -30 | -29 | -27 | -22 | -17 | -10 | -4 | 4 |
| 13 | 20 | 25 | 25 | 23 | 18 | 14 | 10 | 6 | 2 | -1 | -6 | -6 | -7 | -6 | -5 | -3 | -1 | -1 | -3 |
| -4 | -3 | 0 | 5 | 8 | 12 | 14 | 14 | 13 | 12 | 12 | 12 | 13 | 13 | 14 | 13 | 9 | 4 | -3 | -11 |
| -21 | -30 | -34 | -35 | -32 | -26 | -19 | -13 | -10 | -10 | -10 | -11 | -11 | -10 | -8 | -6 | -2 | 2 | 7 | 13 |
| 18 | 20 | 16 | 9 | 2 | -5 | -14 | -23 | -29 | -30 | -27 | -20 | -14 | -8 | -2 | 2 | 6 | 6 | 4 | 3 |
| 2 | 2 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 7 | 4 | 0 | -2 | -3 | 2 | 11 | 17 | 17 | 15 | 15 |
| 20 | 25 | 27 | 28 | 27 | 27 | 26 | 26 | 25 | 21 | 15 | 7 | 0 | -7 | -12 | -12 | -10 | -7 | -3 | -5 |
| -9 | -14 | -18 | -19 | -18 | -16 | -14 | -13 | -11 | -10 | -9 | -10 | -11 | -11 | -11 | -10 | -9 | -8 | -6 | -2 |
| 4 | 8 | 10 | 9 | 7 | 4 | 2 | 2 | -2 | -1 | 2 | 4 | 8 | 9 | 7 | 5 | 4 | 2 | 1 | 0 |
| -1 | -1 | -1 | -2 | -2 | 0 | 2 | 7 | 11 | 16 | 18 | 16 | 14 | 13 | 11 | 8 | 5 | 1 | -2 | -4 |
| -5 | -5 | -3 | -1 | 2 | 5 | 6 | 4 | 3 | 3 | 4 | 5 | 3 | 0 | -1 | -5 | 1 | 8 | 15 | 19 |
| 19 | 15 | 12 | 9 | 7 | 6 | 4 | 5 | 6 | 9 | 11 | 10 | 7 | 3 | -1 | -6 | -9 | -12 | -13 | -12 |
| -11 | -8 | -4 | 1 | 7 | 11 | 14 | 12 | 6 | -1 | -6 | -10 | -13 | -15 | -15 | -14 | -13 | -12 | -11 | -7 |
| -6 | -7 | -6 | -5 | -5 | -5 | -6 | -8 | -11 | -12 | -13 | -12 | -9 | -6 | -1 | 5 | 10 | 14 | 17 | 18 |
| 15 | 12 | 8 | 5 | 2 | 0 | -1 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 5 | 6 | 8 | 9 | 10 | 12 |
| 15 | 18 | 19 | 18 | 17 | 17 | 14 | 10 | 6 | 0 | -5 | -9 | -12 | -15 | -17 | -16 | -15 | -15 | -16 | -19 |
| -23 | -23 | -20 | -17 | -14 | -10 | -6 | -2 | 1 | 3 | 6 | 6 | 2 | -2 | -5 | -4 | -2 | 2 | 7 | 12 |
| 15 | 17 | 19 | 21 | 22 | 21 | 21 | 19 | 17 | 14 | 11 | 7 | 3 | -1 | -4 | -5 | -5 | -6 | -6 | -7 |
| -7 | -7 | -7 | -6 | -6 | -5 | -5 | -7 | -10 | -13 | -17 | -22 | -24 | -26 | -27 | -28 | -28 | -28 | -26 | -21 |

[illegible]

IIV330 62.001.0 NORTHERN CALIFORNIA EARTHQUAKE SEPT 4, 1962 - 0917 PST
 STATION NO. 22 FEDERAL BUILDING, EUREKA, CALIFORNIA
 INSTR PERIOD = 0.065 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.
 EPICENTER - 40 58 00N, 128 12 00W
 COMP N79E 40 48 00N, 124 09 00W

PEAK VALS ACCLN = -45.3 CM/SEC/SEC AT 4.44 SEC VELO = -3.5 CM/SEC AT 4.50 SEC DISP = 1.7 CM AT 57.82 SEC

INITIAL VELO = 0.21531 CM/SEC INITIAL DISP = -0.03319 CM
 4318 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 15 | 15 | 15 | 15 | 16 | 21 | 22 | 11 | -4 | -17 | -23 | -18 | -8 | 6 | 15 | 16 | 10 | -5 | -17 | -17 |
| -9 | -2 | 5 | 12 | 12 | 4 | -3 | -3 | -8 | -17 | -26 | -23 | -4 | 9 | 3 | -15 | -30 | -28 | -15 | -2 |
| 16 | 32 | 34 | 23 | 10 | 7 | 3 | -4 | -1 | -2 | -7 | -2 | 7 | 22 | 32 | 26 | 6 | -13 | -21 | -27 |
| -35 | -41 | -36 | -17 | -2 | 1 | 0 | -6 | -11 | -11 | -17 | -22 | -19 | -13 | -10 | -4 | 2 | 7 | 9 | 6 |
| 5 | 9 | 14 | 12 | 6 | -5 | -15 | -14 | -8 | -4 | -1 | -2 | -4 | 1 | -3 | 3 | 2 | 0 | -6 | -15 |
| -14 | 1 | 14 | 7 | -11 | -21 | -17 | -6 | 0 | -1 | -3 | 1 | 7 | -3 | -14 | -11 | -1 | 9 | 13 | 12 |
| 11 | 6 | -3 | -15 | -25 | -24 | -13 | -4 | 4 | 11 | 8 | -3 | -11 | -18 | -21 | -11 | 3 | 12 | 17 | 20 |
| 19 | 18 | 13 | 0 | -17 | -27 | -29 | -26 | -21 | -14 | -8 | -3 | 1 | 3 | -2 | -7 | -6 | -3 | 2 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 9 | 10 | 9 | 11 | 9 | 2 | -3 | -5 | -5 | -4 | -5 | -5 | -2 | 2 |
| 7 | 12 | 12 | 6 | -3 | -4 | 7 | 23 | 40 | 51 | 54 | 68 | 105 | 139 | 148 | 117 | 61 | 17 | -17 | -39 |
| -29 | 8 | 45 | 32 | -22 | -85 | -150 | -194 | -154 | -43 | 43 | 107 | 163 | 181 | 121 | 6 | -76 | -120 | -187 | -282 |
| -362 | -417 | -453 | -376 | -148 | 43 | 125 | 169 | 223 | 310 | 388 | 354 | 244 | 117 | -28 | -177 | -272 | -266 | -209 | -146 |
| -102 | -83 | -35 | 71 | 215 | 306 | 302 | 272 | 254 | 250 | 238 | 179 | 85 | -29 | -132 | -189 | -222 | -240 | -226 | -176 |
| -113 | -45 | 13 | 42 | 63 | 93 | 123 | 152 | 144 | 84 | 17 | -29 | -51 | -50 | -30 | -2 | 20 | 25 | 14 | 0 |
| -3 | 9 | 10 | -14 | -50 | -87 | -97 | -73 | -52 | -40 | -30 | -17 | -3 | 17 | 33 | 34 | 25 | 20 | 28 | 38 |
| 53 | 62 | 37 | -4 | -36 | -59 | -72 | -72 | -56 | -20 | 25 | 77 | 127 | 160 | 164 | 115 | 54 | 8 | -39 | -94 |
| -140 | -155 | -143 | -109 | -57 | -4 | 39 | 80 | 100 | 79 | 48 | 10 | -31 | -57 | -68 | -70 | -50 | -13 | 18 | 38 |
| 47 | 45 | 24 | -17 | -50 | -56 | -40 | -18 | 8 | 44 | 67 | 76 | 75 | 62 | 42 | 23 | 5 | -14 | -21 | -18 |
| -24 | -35 | -44 | -52 | -53 | -49 | -39 | -25 | -1 | 39 | 73 | 88 | 80 | 55 | 32 | 24 | 31 | 42 | 40 | 0 |
| -69 | -111 | -115 | -104 | -87 | -65 | -28 | 21 | 63 | 88 | 92 | 71 | 39 | 6 | -25 | -30 | -9 | 15 | 32 | 36 |
| 20 | -15 | -50 | -81 | -106 | -124 | -125 | -96 | -54 | -13 | 25 | 50 | 70 | 88 | 102 | 107 | 99 | 73 | 39 | 7 |
| -26 | -51 | -64 | -72 | -78 | -77 | -65 | -41 | -6 | 39 | 81 | 100 | 102 | 99 | 90 | 72 | 46 | 14 | -18 | -41 |
| -59 | -87 | -121 | -138 | -127 | -97 | -49 | 3 | 44 | 81 | 99 | 97 | 77 | 46 | 10 | -22 | -51 | -88 | -115 | -120 |
| -104 | -78 | -50 | -16 | 28 | 75 | 104 | 105 | 83 | 53 | 34 | 30 | 34 | 39 | 43 | 37 | 16 | -18 | -48 | -55 |
| -48 | -31 | -9 | 12 | 37 | 59 | 72 | 71 | 56 | 29 | 2 | -16 | -26 | -30 | -29 | -25 | -18 | -10 | -4 | -3 |
| -7 | -15 | -24 | -32 | -39 | -43 | -41 | -36 | -30 | -25 | -18 | -10 | -7 | -7 | -5 | -1 | 1 | 5 | 12 | 21 |
| 32 | 39 | 41 | 40 | 38 | 33 | 25 | 9 | -9 | -18 | -19 | -20 | -19 | -17 | -16 | -14 | -10 | -4 | 4 | 9 |
| 12 | 13 | 13 | 11 | 12 | 13 | 9 | 2 | -7 | -18 | -29 | -17 | -5 | 5 | 5 | 11 | 12 | 8 | 2 | 0 |
| 3 | 5 | 4 | -8 | -25 | -38 | -45 | -42 | -30 | -16 | -3 | 11 | 20 | 24 | 26 | 26 | 23 | 10 | -11 | -28 |
| -38 | -48 | -55 | -48 | -30 | -2 | 31 | 57 | 75 | 85 | 80 | 64 | 34 | -1 | -32 | -58 | -68 | -63 | -50 | -26 |
| 3 | 27 | 43 | 57 | 68 | 74 | 73 | 62 | 44 | 23 | 4 | -17 | -43 | -67 | -81 | -81 | -69 | -53 | -37 | -23 |
| -10 | 4 | 6 | 0 | -9 | -19 | -29 | -39 | -43 | -43 | -40 | -35 | -26 | -12 | 8 | 28 | 51 | 70 | 77 | 76 |
| 73 | 65 | 56 | 46 | 36 | 25 | 14 | 4 | -2 | -6 | -6 | -2 | 5 | 14 | 26 | 33 | 32 | 24 | 10 | -5 |
| -20 | -38 | -51 | -57 | -55 | -48 | -38 | -22 | -4 | 7 | 9 | 4 | -10 | -24 | -33 | -41 | -42 | -32 | -22 | -15 |
| -8 | -2 | 3 | 7 | 11 | 13 | 14 | 13 | 11 | 3 | -7 | -17 | -26 | -30 | -29 | -26 | -22 | -18 | -14 | -11 |
| -7 | -4 | 2 | 9 | 14 | 13 | 8 | -1 | -16 | -26 | -29 | -28 | -13 | 6 | 19 | 33 | 49 | 55 | 49 | 38 |
| 21 | 2 | -14 | -23 | -30 | -39 | -45 | -40 | -32 | -19 | -1 | 16 | 31 | 38 | 41 | 44 | 43 | 42 | 39 | 35 |
| 29 | 23 | 22 | 18 | 11 | 6 | -1 | -11 | -22 | -29 | -35 | -36 | -31 | -26 | -20 | -19 | -22 | -25 | -26 | -21 |
| -13 | -7 | -7 | -12 | -18 | -27 | -32 | -30 | -24 | -15 | -7 | 2 | 14 | 20 | 22 | 24 | 28 | 32 | 33 | 32 |
| 30 | 29 | 29 | 30 | 31 | 33 | 36 | 39 | 43 | 41 | 34 | 26 | 21 | 17 | 18 | 21 | 24 | 21 | 17 | 13 |
| 5 | -8 | -21 | -31 | -41 | -48 | -50 | -47 | -42 | -35 | -30 | -25 | -17 | -9 | -2 | 3 | 8 | 10 | 8 | 4 |
| 1 | -7 | -17 | -22 | -22 | -17 | -7 | 6 | 19 | 31 | 38 | 39 | 34 | 27 | 21 | 13 | 3 | -12 | -25 | -26 |
| -21 | -17 | -13 | -10 | -7 | -4 | -1 | 1 | 4 | 7 | 9 | 8 | 4 | 0 | -2 | -5 | -7 | -8 | -5 | -1 |
| 2 | 6 | 14 | 21 | 24 | 24 | 22 | 16 | 10 | 8 | 8 | 12 | 18 | 25 | 28 | 30 | 30 | 29 | 27 | 25 |

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 22 | 17 | 13 | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 6 | 1 | -5 | -6 | -4 | 0 | 3 | 1 | 0 | 3 | -11 |
| 6 | 8 | 11 | 15 | 21 | 32 | 25 | 11 | -6 | -17 | -27 | -34 | -38 | -33 | -37 | -32 | -26 | -19 | -37 | -2 | -11 |
| -3 | 2 | 4 | 2 | -2 | -26 | -42 | -54 | -55 | -54 | -50 | -44 | -33 | -19 | -17 | -2 | 14 | 27 | -37 | -2 | 35 |
| 40 | 39 | 33 | 17 | -2 | -21 | -17 | -11 | -5 | -14 | 7 | 14 | 21 | 26 | 29 | 27 | 24 | 23 | 26 | 29 | 18 |
| 8 | 0 | -4 | -4 | -4 | 1 | 4 | 8 | 13 | -1 | 21 | 22 | 23 | 22 | 19 | 16 | 17 | 22 | 22 | 19 | 18 |
| 15 | 11 | 7 | 3 | 1 | 3 | 5 | 6 | 9 | 12 | 14 | 14 | 13 | 22 | 22 | 9 | 2 | 13 | 13 | 9 | -19 |
| -24 | -31 | -36 | -37 | -36 | -30 | -28 | -24 | -20 | -16 | -9 | -2 | 0 | -35 | -33 | -30 | -32 | -25 | -19 | -6 | -6 |
| -1 | -1 | -1 | 0 | 2 | -30 | 7 | 11 | -19 | -15 | -11 | -5 | -3 | -2 | 0 | 0 | 6 | 2 | 4 | 7 | 4 |
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| -30 | -41 | -44 | -45 | -44 | -42 | -41 | -38 | -35 | -33 | -30 | -38 | -38 | -35 | -33 | -30 | -25 | -19 | -14 | -9 | -6 |
| -7 | -11 | -14 | -13 | -11 | -7 | -5 | -3 | -2 | -1 | 0 | 0 | 0 | -2 | -1 | 0 | 0 | 2 | 4 | 7 | -6 |
| 0 | -5 | -9 | -11 | -12 | -9 | -7 | -5 | -3 | 0 | 3 | 3 | 0 | -3 | 0 | 3 | 6 | 9 | 11 | 11 | 3 |
| 1 | -4 | -10 | -14 | -17 | -26 | -29 | -31 | -32 | -33 | -33 | -32 | -30 | -30 | -29 | -28 | -26 | -25 | -23 | -25 | -23 |
| -21 | -19 | -16 | -12 | -8 | -4 | -5 | -6 | -4 | -2 | 1 | 4 | 8 | 8 | 11 | 12 | 14 | 17 | 11 | 17 | 19 |
| 20 | 22 | 23 | 24 | 25 | 21 | 17 | 14 | 11 | 9 | 7 | 9 | 13 | 13 | 16 | 18 | 18 | 16 | 16 | 16 | 15 |
| 12 | 9 | 4 | -3 | -8 | -22 | -25 | -25 | -24 | -24 | -23 | -23 | -23 | -23 | -23 | -20 | -17 | -15 | -15 | -12 | -14 |
| -13 | -11 | -9 | -6 | -1 | 7 | 10 | 13 | 15 | 18 | 21 | 22 | 23 | 22 | 23 | 24 | 23 | 19 | 11 | 2 | -22 |
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| 20 | 21 | 21 | 20 | 19 | 16 | 14 | 11 | 8 | 5 | 3 | 1 | 0 | 24 | 26 | 29 | 26 | 24 | 23 | -22 | 11 |
| 1 | 3 | 6 | 10 | 14 | 22 | 25 | 27 | 29 | 31 | 29 | 31 | 29 | -11 | -12 | -11 | -12 | 12 | 11 | 11 | 11 |
| 8 | 8 | 6 | 1 | -3 | -5 | -6 | -8 | -9 | -11 | -11 | -11 | -11 | -12 | -12 | -12 | -12 | 13 | 12 | 12 | -4 |
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| 13 | 13 | 13 | 11 | 8 | 1 | -5 | -8 | -8 | -5 | -2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | -22 |
| 7 | 9 | 10 | 11 | 12 | 15 | 18 | 21 | 22 | 23 | 24 | 23 | 24 | 22 | 23 | 24 | 23 | 19 | 11 | 2 | -5 |
| -29 | -34 | -36 | -33 | -29 | -14 | -13 | -11 | -11 | -11 | -12 | -11 | -11 | -11 | -12 | -12 | -15 | -19 | -23 | -27 | -30 |
| -26 | -23 | -18 | -12 | -3 | 16 | 17 | 16 | 13 | 10 | 6 | 4 | 3 | -8 | -15 | -21 | -25 | -19 | -19 | 4 | 1 |
| 2 | 3 | 6 | 9 | 10 | 7 | 3 | -2 | -7 | -8 | -11 | -15 | -23 | -23 | -21 | -25 | -19 | -15 | -19 | 5 | 3 |
| -12 | -11 | -9 | -6 | -2 | 3 | 0 | -4 | -4 | -7 | -8 | -11 | -15 | -16 | -11 | -15 | -14 | -12 | -10 | -12 | -7 |
| -3 | 0 | 3 | 6 | 10 | 15 | 19 | 23 | 23 | 21 | 19 | 17 | 15 | 14 | 13 | 13 | 8 | 3 | 1 | -7 | -1 |
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| -28 | -28 | -26 | -24 | -22 | -18 | -16 | -15 | -15 | -12 | -5 | 2 | 5 | 6 | 6 | 6 | 4 | 3 | 1 | 3 | 1 |
| -4 | -4 | -5 | -5 | -6 | -4 | -6 | -7 | -7 | -6 | -3 | -1 | 4 | 4 | 4 | 4 | 5 | 4 | 3 | 1 | -27 |
| 15 | 17 | 19 | 21 | 22 | 18 | 14 | 10 | 10 | -2 | -6 | -3 | -1 | 1 | 1 | 1 | 7 | 9 | 10 | 10 | 12 |
| -5 | -3 | -3 | -5 | -8 | -13 | -14 | -15 | -15 | -17 | -18 | -18 | -17 | -17 | -18 | -19 | -16 | -15 | -13 | -7 | -8 |
| -12 | -9 | -6 | -4 | -2 | 4 | 7 | 9 | 9 | 11 | 13 | 14 | 14 | 15 | 15 | 16 | 16 | 16 | 15 | 5 | 15 |
| 14 | 13 | 10 | 8 | 5 | 0 | -2 | -4 | -6 | -9 | -12 | -13 | -14 | -14 | -13 | -12 | -13 | -13 | -13 | 7 | 13 |
| -13 | -13 | -13 | -11 | -7 | 1 | 1 | 1 | 3 | 7 | 10 | 13 | 15 | 15 | 17 | 18 | 17 | 18 | 18 | 18 | 19 |
| 20 | 20 | 19 | 18 | 17 | 12 | 11 | 6 | 3 | -3 | -9 | -13 | -22 | -22 | -20 | -22 | -22 | -22 | -23 | -23 | -23 |
| -22 | -18 | -14 | -9 | -4 | 4 | 7 | 11 | 15 | 17 | 19 | 20 | 21 | 21 | 21 | 20 | 18 | 14 | 11 | 14 | 14 |
| 7 | 3 | 0 | -1 | -2 | -4 | -8 | -7 | -7 | -8 | -10 | -11 | -12 | -12 | -12 | -12 | -13 | -14 | -14 | -14 | -14 |
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| 9 | 3 | 0 | 2 | 4 | 2 | 0 | -5 | -5 | -5 | -4 | -4 | -5 | -5 | -2 | 3 | 3 | 3 | 3 | 5 | 4 |
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| 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 |
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| 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
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| 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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| 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -10 | -8 | -6 | -1 | 3 | 5 | 5 | 3 | 3 | 3 | 4 | 5 | 3 | -1 | -5 | -9 | -14 | -17 | -18 | -19 | -21 |
| -23 | -26 | -27 | -27 | -25 | -21 | -17 | -13 | -9 | -6 | -3 | -3 | 2 | 7 | 10 | 11 | 11 | 12 | 12 | 12 | 11 |
| -4 | -4 | -4 | -5 | -6 | -8 | -10 | -10 | -8 | -6 | -4 | -4 | -1 | 2 | 4 | 6 | -27 | -24 | -20 | -16 | -3 |
| 14 | 12 | 10 | 7 | 5 | 3 | 1 | -1 | -6 | -11 | -16 | -23 | 12 | 15 | 16 | 16 | 15 | 14 | 15 | 16 | 16 |
| -13 | -13 | -13 | -12 | -12 | -10 | -8 | -5 | -2 | 1 | 5 | 8 | 12 | 15 | -1 | -3 | -4 | -7 | -10 | -13 | -13 |
| 19 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 14 | 11 | 6 | 2 | 2 | -1 | -9 | -9 | -8 | -6 | -4 | -2 |
| -14 | -14 | -12 | -11 | -9 | -7 | -5 | -4 | -4 | -3 | -9 | -7 | -9 | -10 | -10 | -10 | 13 | 14 | 14 | 15 | 15 |
| 0 | 2 | 4 | 6 | 7 | 8 | 8 | 7 | 7 | 8 | 9 | 10 | 12 | 13 | 13 | 14 | 13 | 14 | 15 | 15 | -2 |
| 15 | 15 | 16 | 17 | 17 | 15 | 12 | 9 | 8 | 6 | 5 | 4 | 4 | 4 | 4 | 3 | 2 | 1 | -1 | -2 | -2 |
| -2 | -1 | -2 | -6 | -11 | -15 | -15 | -15 | -15 | -15 | -14 | -13 | -12 | -10 | -9 | -9 | -6 | -5 | -4 | -4 | -4 |
| -4 | -4 | -4 | -3 | -1 | 2 | 5 | 8 | 11 | 13 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 14 |
| 13 | 12 | 10 | 8 | 6 | 3 | 1 | 0 | -2 | -3 | -5 | -6 | -8 | -8 | -8 | -7 | -7 | -6 | -5 | -3 | -3 |
| -2 | -1 | -1 | -1 | 0 | 0 | 0 | -1 | -1 | -2 | -2 | -2 | -2 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 |
| -1 | -2 | -2 | -2 | -3 | -4 | -5 | -5 | -5 | -5 | -4 | -3 | -4 | -4 | -5 | -5 | -5 | -6 | -7 | -7 | -7 |
| -6 | -3 | -1 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 5 | 6 | 7 | 11 |
| 13 | 13 | 13 | 11 | 9 | 8 | 8 | 7 | 5 | 2 | -2 | -5 | -5 | -5 | -5 | -4 | -4 | -3 | -3 | -3 | -3 |
| -4 | -6 | -9 | -10 | -11 | -12 | -12 | -11 | -10 | -10 | -12 | -12 | -8 | -8 | -5 | -6 | -6 | -2 | 2 | 5 | 7 |
| 7 | 4 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 0 | -1 | -1 | -1 | -1 | -1 | -2 | -4 | -5 | -4 | -2 | 0 |
| -1 | -1 | -2 | -2 | -1 | -1 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 7 | 7 | 8 | 10 | 10 | 9 | 8 | 0 |
| 6 | 7 | 7 | 8 | 9 | 10 | 9 | 7 | 7 | 6 | 5 | 5 | 5 | 7 | 7 | 6 | 1 | -2 | -4 | -8 | -11 |
| -11 | -11 | -11 | -11 | -11 | -10 | -8 | -7 | -7 | -8 | -8 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -9 | -8 | -7 |
| -6 | -5 | -5 | -5 | -6 | -7 | -7 | -6 | -6 | -7 | -7 | -5 | -5 | -4 | -3 | -3 | 0 | 2 | 4 | 5 | 6 |
| 6 | 7 | 6 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | -3 | -6 | -8 | -8 | -7 | -7 | -6 | -6 |
| -5 | -5 | -5 | -1 | -1 | 1 | 2 | 2 | -1 | -3 | -5 | -7 | -8 | -6 | -4 | -4 | -3 | -3 | -3 | -3 | -3 |
| -3 | -3 | -4 | -5 | -5 | -2 | 0 | -1 | -4 | -5 | -7 | -8 | -5 | 0 | 2 | 4 | 6 | 6 | 7 | 7 | 7 |
| -4 | -5 | -4 | -3 | -1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 6 | 6 | 7 | 7 | 7 |
| 7 | 6 | 3 | 1 | -1 | -2 | -3 | -5 | -7 | -9 | -9 | -9 | -9 | -8 | -6 | -6 | -5 | -4 | -4 | -6 | -8 |
| -9 | -10 | -9 | -7 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -7 | -7 | -2 | 0 | 1 | 2 | -2 |
| 2 | 2 | 2 | 3 | 5 | 6 | 7 | 7 | 6 | 5 | 3 | 1 | 0 | 0 | 1 | 1 | 2 | 4 | 5 | 2 | 4 |
| 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 5 | 4 | 3 | 1 | -1 | -3 | -3 |
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| 7 | 7 | 5 | 5 | 5 | 6 | 6 | 6 | 5 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 6 | 7 | 8 | 9 |
| 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 9 | -4 | -2 | 0 | 0 | 12 | 9 | 8 | 9 | 10 |
| 10 | 10 | 10 | 9 | 9 | 8 | 6 | 2 | -2 | -5 | -5 | -5 | 9 | 9 | 9 | 11 | 2 | 1 | 1 | -1 | -2 |
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| 2 | 4 | 7 | 6 | 4 | 2 | 0 | -2 | -2 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -3 | -3 |
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| -4 | 4 | 2 | 1 | -5 | -4 | -6 | -6 | -5 | -5 | -4 | -4 | -4 | -5 | -7 | -7 | -7 | -7 | -7 | -3 | 3 |
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| -5 | -5 | -6 | -6 | -6 | -7 | -7 | -7 | -7 | -6 | -5 | -5 | -5 | -5 | -6 | -7 | -9 | -11 | -12 | -5 | -5 |
| -7 | -7 | -8 | -6 | -6 | -7 | -7 | -7 | -7 | -6 | -5 | -5 | -5 | -5 | -6 | -7 | -9 | -11 | -12 | -5 | -5 |
| -5 | -2 | -1 | -2 | -3 | -3 | -3 | -3 | -2 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -2 | -4 | -6 | -7 | -7 |
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| -2 | -3 | -3 | -2 | 0 | 1 | 1 | 1 | -2 | -7 | -9 | -9 | -9 | -8 | -6 | -5 | -4 | -6 | -6 | -5 | -5 |
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| 3 | 2 | 2 | 1 | 0 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -2 |
| -3 | -3 | -2 | 0 | 1 | 0 | -1 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |

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| 0 | 1 | 0 | -4 | -8 | -10 | -10 | -12 | -15 | -15 | -11 | -7 | -4 | 0 | 2 | 3 | 4 | 4 | 2 | 1 |
| 0 | 2 | 3 | 3 | 1 | -3 | -4 | -3 | -1 | -3 | 4 | 2 | -2 | -7 | -11 | -11 | -8 | -1 | 5 | 9 |
| 13 | 14 | 10 | 3 | -3 | -8 | -12 | -14 | -12 | -8 | -2 | 3 | 5 | 4 | 4 | 2 | 2 | -6 | -5 | -3 |
| 0 | 3 | 8 | 10 | 9 | 6 | 5 | 4 | 4 | 3 | 3 | 2 | 0 | -1 | -2 | -2 | -3 | -3 | -3 | -4 |
| -4 | -4 | -4 | -3 | -2 | -2 | -4 | -3 | 0 | 3 | 6 | 7 | 6 | 6 | 6 | 6 | 8 | 9 | 8 | 4 |
| 1 | -1 | 0 | 3 | 4 | 4 | 3 | 3 | 2 | 1 | 0 | -1 | -2 | -2 | -2 | -1 | -1 | -1 | -1 | -1 |
| -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -2 | -2 | -2 | -2 | -1 | -1 | -1 | -1 | -1 |
| -1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 6 | -1 | -1 |

IIV330 62.001.0
 STATION NO. 22
 INSTR PERIOD = 0.066 SEC
 DAMPING = 0.620
 NORTHERN CALIFORNIA EARTHQUAKE SEPT 4, 1962 - 0917 PST
 FEDERAL BUILDING, EUREKA, CALIFORNIA
 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25
 CYC/SEC.
 EPICENTER - 40 58 00N, 128 12 00W
 COMP SILE 40 48 00N, 124 09 00W

| | | | | | | |
|-----------|--------------|------------------------|-------------|--------------------|-------------|-----------------|
| PEAK VALS | ACLN = -47.3 | CM/SEC/SEC AT 4.30 SEC | VELO = -2.7 | CM/SEC AT 4.40 SEC | DISP = -1.2 | CM AT 18.22 SEC |
|-----------|--------------|------------------------|-------------|--------------------|-------------|-----------------|

```
INITIAL VELO = -0.34975 CM/SEC      INITIAL DISP = 0.21320 CM
```

4312 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|------|------|------|-----|-----|------|------|------|------|------|------|------|------|------|------|
| -18 | -33 | -34 | -27 | -15 | 5 | 31 | 49 | 58 | 56 | 46 | 36 | 27 | 18 | 9 | 3 | 3 | -3 | -21 | -37 |
| -44 | -40 | -34 | -29 | -23 | -17 | -11 | -1 | 15 | 24 | 25 | 26 | 25 | 16 | 9 | 11 | 13 | -1 | -23 | -31 |
| -19 | 0 | 12 | 23 | 29 | 27 | 19 | 2 | -23 | -42 | -42 | -33 | -24 | -15 | -8 | -2 | 2 | 6 | 11 | 18 |
| 20 | 13 | 4 | 0 | -2 | -2 | -1 | -4 | -8 | -8 | -3 | -1 | -2 | -5 | -11 | -14 | -11 | -6 | 2 | 13 |
| 17 | 17 | 15 | 11 | 6 | 3 | -1 | -4 | -6 | -6 | -7 | -9 | -12 | -15 | -13 | -8 | -6 | -3 | 5 | 9 |
| 6 | 4 | 6 | 8 | 8 | 8 | 3 | -6 | -9 | -7 | -4 | -1 | 3 | 7 | 11 | -12 | -16 | -17 | -16 | -10 |
| -2 | 7 | 14 | 19 | 19 | 14 | 9 | 7 | 5 | 4 | 3 | 3 | 2 | -1 | -6 | -12 | -16 | -17 | -15 | -13 |
| -13 | -12 | -8 | -1 | 10 | 20 | 24 | 25 | 25 | 25 | 25 | 20 | 13 | 6 | 1 | -3 | -4 | -4 | -3 | -1 |
| 5 | 9 | 6 | 2 | 1 | -2 | -6 | -4 | -2 | -3 | -6 | -11 | -12 | -6 | 3 | 8 | 5 | 0 | -2 | 8 |
| 30 | 56 | 74 | 85 | 94 | 109 | 124 | 130 | 112 | 76 | 42 | 12 | -21 | -59 | -80 | -74 | -65 | -63 | -69 | -77 |
| -74 | -50 | -7 | 23 | 43 | 69 | 125 | 191 | 215 | 176 | 72 | -51 | -151 | -277 | -413 | -473 | -454 | -361 | -227 | -126 |
| -11 | 176 | 345 | 441 | 407 | 305 | 243 | 215 | 143 | 20 | -120 | -247 | -302 | -296 | -263 | -170 | -7 | 141 | 182 | 119 |
| 47 | 52 | 123 | 174 | 157 | 86 | 13 | -23 | -35 | -42 | -55 | -74 | -72 | -41 | -16 | -5 | 3 | 10 | 17 | 22 |
| 31 | 37 | 34 | 28 | 15 | -12 | -37 | -52 | -56 | -53 | -58 | -79 | -82 | -47 | 8 | 38 | 2 | -39 | -48 | -39 |
| -21 | -8 | -1 | 6 | 10 | 13 | 14 | 14 | 13 | 11 | 3 | -12 | -32 | -50 | -68 | -81 | -87 | -73 | -34 | 27 |
| 89 | 115 | 116 | 107 | 90 | 60 | 18 | -29 | -75 | -96 | -85 | -41 | 18 | 57 | 82 | 98 | 94 | 79 | 61 | 42 |
| 18 | -13 | -53 | -82 | -97 | -106 | -102 | -88 | -52 | 12 | 64 | 89 | 98 | 92 | 77 | 34 | -32 | -76 | -83 | -71 |
| -61 | -55 | -50 | -47 | -49 | -35 | -8 | 32 | 81 | 99 | 83 | 51 | -9 | -71 | -103 | -93 | -65 | -33 | 14 | 63 |
| 79 | 62 | 39 | 27 | 21 | 14 | 6 | -8 | -22 | -19 | -10 | 5 | -6 | -10 | -11 | -14 | -21 | -28 | -27 | -17 |
| -7 | 4 | 18 | 33 | 50 | 63 | 67 | 66 | 60 | 45 | 16 | -29 | -76 | -107 | -114 | -106 | -83 | -39 | 8 | 46 |
| 70 | 73 | 65 | 54 | 42 | 26 | 5 | -22 | -39 | -41 | -33 | -17 | 8 | 24 | 24 | 16 | 1 | -15 | -26 | -25 |
| -6 | 23 | 58 | 85 | 87 | 68 | 40 | -3 | -40 | -69 | -96 | -102 | -83 | -55 | -25 | 4 | 27 | 44 | 59 | 77 |
| 91 | 99 | 96 | 78 | 35 | -30 | -76 | -94 | -93 | -73 | -38 | 4 | 25 | 31 | 37 | 45 | 52 | 56 | 50 | 32 |
| 10 | -16 | -42 | -61 | -81 | -104 | -117 | -107 | -68 | -19 | 25 | 51 | 56 | 49 | 28 | 10 | 8 | 12 | 12 | 17 |
| -15 | -45 | -60 | -56 | -28 | 11 | 48 | 81 | 103 | 108 | 92 | 68 | 35 | -17 | -53 | -63 | -58 | -52 | -45 | -35 |
| -18 | 0 | 14 | 34 | 53 | 65 | 67 | 56 | 39 | 13 | -9 | -24 | -31 | -25 | -11 | 8 | 21 | 22 | 16 | 3 |
| -15 | -29 | -34 | -25 | -10 | -2 | -1 | -8 | -17 | -26 | -31 | -30 | -18 | 5 | 26 | 33 | 25 | 10 | -8 | -27 |
| -43 | -57 | -66 | -66 | -61 | -54 | -41 | -19 | 15 | 49 | 71 | 81 | 79 | 67 | 54 | 38 | 23 | 1 | -40 | -66 |
| -66 | -61 | -49 | -28 | -3 | 13 | 15 | 18 | 29 | 40 | 43 | 33 | 15 | 1 | -7 | -8 | 0 | 12 | 26 | 39 |
| | | | | | | | | | | | | | | | | | | | |

[illegible]

[illegible]

| | | | | | | | | | | | | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| -1 | -5 | -8 | -10 | -12 | -12 | -11 | -11 | -9 | -5 | -3 | -3 | -3 | -2 | 1 | 4 | 6 | 6 | 3 | -2 | 3 |
| 0 | -2 | -4 | -4 | -4 | -1 | 2 | 5 | 4 | 1 | 2 | 4 | 6 | 6 | 5 | 4 | 1 | 0 | 3 | -2 | |
| -2 | -2 | 0 | 1 | 3 | 5 | 5 | 5 | 4 | 3 | 1 | -1 | -2 | -2 | -2 | -1 | 1 | 6 | 1 | 4 | 4 |
| 1 | -2 | -4 | -4 | -4 | -3 | -4 | -5 | -5 | -4 | -2 | -1 | 0 | 1 | 1 | 2 | 3 | 5 | 4 | 6 | 6 |
| 6 | 7 | 7 | 4 | 1 | -2 | -3 | -4 | -4 | -2 | 0 | 2 | 2 | 1 | 0 | 1 | -2 | 0 | -2 | 0 | 0 |
| 1 | 1 | 2 | 3 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | -1 | 0 | 1 | 2 | 2 |
| 2 | 2 | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 10 | 2 | 10 | 10 | 11 |
| 12 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 8 | 8 | 9 | 10 | 9 | 10 | 11 |

IIIV330 62.001.0 NORTHERN CALIFORNIA EARTHQUAKE SEPT 4, 1962 - 0917 PST
STATION NO. 22 FEDERAL BUILDING, EUREKA, CALIFORNIA
INSTR PERIOD = 0.066 SEC DAMPING = 0.574 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.
PEAK VALS ACLN = 13.0 CM/SEC/SEC AT 4.50 SEC VELO = 1.5 CM/SEC AT 55.40 SEC DISP = -2.0 CM AT 53.62 SEC

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 14 | 15 | 13 | 7 | 0 | -5 | -9 | -13 | -19 | -24 | -19 | -12 | -5 | 3 | 7 | 7 | 6 | 5 | 1 |
| -6 | -12 | -18 | -22 | -22 | -21 | -18 | -15 | -11 | -6 | -11 | -2 | 7 | 10 | 15 | 20 | 22 | 22 | 19 |
| 15 | 13 | 12 | 11 | 9 | 5 | 5 | 4 | 5 | 4 | 0 | -1 | -1 | -2 | -4 | -5 | -8 | -8 | -4 |
| -1 | 4 | 10 | 15 | 17 | 16 | 15 | 13 | 11 | 7 | 1 | 1 | 2 | 4 | 8 | 13 | 19 | 23 | 23 |
| 22 | 20 | 17 | 12 | 5 | 0 | -2 | -5 | -10 | -16 | -17 | -15 | -13 | -11 | -8 | -5 | -2 | -1 | -3 |
| -5 | -7 | -9 | -10 | -10 | -11 | -13 | -16 | -18 | -18 | -14 | -10 | -7 | -3 | 1 | 5 | 6 | 7 | 5 |
| 2 | -1 | -4 | -6 | -9 | -11 | -12 | -12 | -11 | -8 | -1 | 3 | 6 | 8 | 9 | 7 | 6 | 5 | 4 |
| 2 | 0 | -5 | -11 | -14 | -15 | -14 | -16 | -22 | -25 | -12 | -11 | -10 | -10 | -10 | -10 | -10 | -10 | -10 |
| -10 | -11 | -13 | -14 | -15 | -15 | -16 | -19 | -22 | -26 | -23 | -20 | -16 | -12 | -9 | -6 | -4 | -2 | -1 |
| 0 | 1 | 0 | 0 | -1 | 0 | 2 | 3 | 2 | 1 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 0 |
| -3 | -7 | -10 | -12 | -14 | -15 | -14 | -12 | -11 | -10 | -12 | -15 | -19 | -22 | -25 | -28 | -29 | -29 | -27 |
| -25 | -22 | -20 | -18 | -16 | -15 | -13 | -10 | -6 | -4 | -2 | -1 | -1 | -2 | -4 | -6 | -9 | -11 | -13 |
| -13 | -11 | -8 | -6 | -3 | 0 | 3 | 6 | 9 | 13 | 16 | 19 | 19 | 18 | 17 | 15 | 14 | 14 | 12 |
| 11 | 9 | 8 | 6 | 3 | 1 | 0 | 0 | -1 | -1 | -2 | -4 | -9 | -7 | -5 | -3 | -3 | -5 | -7 |
| -8 | -9 | -9 | -9 | -8 | -7 | -5 | -4 | -1 | 3 | 7 | 11 | 14 | 14 | 13 | 13 | 11 | 8 | 5 |
| 2 | 1 | 0 | 0 | -2 | -3 | -3 | -1 | 0 | 2 | 5 | 9 | 16 | 20 | 17 | 10 | 6 | 4 | 2 |
| 0 | 0 | 2 | 4 | 7 | 9 | 10 | 10 | 10 | 10 | 7 | 4 | -1 | -5 | -6 | -4 | -1 | 0 | 1 |
| 4 | 6 | 8 | 9 | 8 | 6 | 5 | 4 | 4 | 6 | 4 | 3 | 1 | 0 | -1 | -2 | -3 | -3 | -2 |
| 0 | 5 | 8 | 9 | 8 | 7 | 8 | 9 | 11 | 12 | 12 | 12 | 13 | 16 | 16 | 15 | 15 | 17 | 21 |
| 24 | 22 | 17 | 13 | 11 | 8 | 7 | 8 | 8 | 6 | 0 | -3 | -7 | -11 | -15 | -19 | -21 | -21 | -19 |
| -18 | -16 | -13 | -11 | -8 | -5 | -2 | 0 | 2 | 2 | 1 | 2 | 1 | 0 | 0 | -1 | -2 | -3 | -2 |
| 0 | 3 | 7 | 9 | 11 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 15 | 11 | 4 | 0 | 0 | -1 | -1 |
| -2 | -2 | -3 | -3 | -3 | -4 | -5 | -4 | -2 | 1 | 3 | 5 | 4 | 1 | -2 | -3 | -4 | -3 | -3 |
| -4 | -5 | -5 | -4 | -4 | -7 | -10 | -11 | -9 | -5 | -1 | 1 | 2 | 3 | 1 | 0 | 0 | 2 | 4 |
| 5 | 6 | 7 | 7 | 5 | 4 | 3 | 2 | 1 | -1 | 4 | 6 | 5 | 3 | 0 | -1 | -1 | 0 | 1 |
| 2 | 3 | 4 | 6 | 8 | 11 | 12 | 15 | 18 | 18 | 17 | 15 | 9 | 5 | 2 | 0 | -2 | -4 | -8 |
| -11 | -14 | -15 | -14 | -12 | -10 | -7 | -8 | -12 | -14 | -14 | -15 | -17 | -18 | -17 | -16 | -14 | -12 | -10 |
| -9 | -7 | -4 | -1 | 1 | 4 | 6 | 9 | 12 | 15 | 19 | 18 | 17 | 16 | 17 | 19 | 22 | 22 | 17 |
| 12 | 9 | 8 | 5 | 3 | 0 | -3 | -6 | -9 | -11 | -10 | -14 | -17 | -18 | -17 | -17 | -16 | -14 | -12 |
| -8 | -4 | -1 | 1 | 4 | 8 | 13 | 18 | 22 | 24 | 24 | 24 | 24 | 25 | 26 | 26 | 25 | 22 | 19 |
| 18 | 18 | 15 | 10 | 5 | 1 | -2 | -7 | -14 | -18 | -20 | -23 | -24 | -25 | -24 | -22 | -19 | -16 | -13 |
| -10 | -5 | -2 | 1 | 3 | 5 | 6 | 8 | 9 | 11 | 14 | 17 | 21 | 24 | 25 | 24 | 24 | 23 | 21 |
| 19 | 16 | 13 | 10 | 7 | 4 | 1 | -2 | -3 | -5 | -9 | -13 | -12 | -10 | -7 | -7 | -6 | -6 | -5 |
| -5 | -4 | -2 | 2 | 6 | 8 | 7 | 6 | 5 | 4 | 1 | -3 | -9 | -7 | -3 | 0 | 0 | 0 | -1 |
| 0 | 2 | 5 | 6 | 5 | 4 | 3 | 2 | 1 | 1 | 3 | 4 | 5 | 5 | 6 | 7 | 7 | 6 | 5 |
| 3 | 0 | -2 | -3 | -2 | -2 | -4 | -7 | -8 | -8 | -12 | -13 | -9 | -7 | -4 | -7 | -11 | -14 | -14 |
| -13 | -11 | -10 | -11 | -11 | -11 | -11 | -10 | -9 | -9 | -7 | -3 | -2 | -1 | 0 | 2 | 2 | 1 | 2 |
| 2 | 4 | 3 | 0 | -2 | -4 | -6 | -8 | -10 | -13 | -11 | -10 | -9 | -8 | -7 | -5 | -2 | 0 | 3 |
| 6 | 7 | 8 | 8 | 6 | 4 | 1 | -1 | -3 | -4 | -6 | -5 | -5 | -4 | -4 | -3 | -2 | -2 | -1 |
| 0 | 1 | 1 | 1 | 1 | 0 | -2 | -4 | -6 | -7 | -10 | -10 | -9 | -9 | -10 | -10 | -10 | -9 | -9 |
| -8 | -7 | -6 | -5 | -4 | -3 | -3 | -3 | -3 | -4 | -6 | -6 | -4 | -2 | 0 | -1 | -1 | -2 | -3 |
| -4 | -7 | -9 | -11 | -12 | -14 | -14 | -14 | -14 | -14 | -12 | -12 | -11 | -10 | -10 | -10 | -10 | -10 | -11 |
| -11 | -11 | -10 | -8 | -7 | -5 | -4 | -2 | 1 | 0 | 3 | 5 | 5 | 4 | 2 | 1 | 1 | 1 | 0 |
| -2 | -3 | -2 | -1 | 0 | 2 | 2 | 1 | 1 | -2 | -8 | -9 | -9 | -10 | -10 | -9 | -9 | -8 | -7 |
| -6 | -5 | -4 | -3 | -2 | -2 | -2 | -2 | -2 | -2 | -5 | -7 | -8 | -8 | -8 | -7 | -7 | -6 | -5 |
| -4 | -2 | -1 | 0 | 1 | 0 | -1 | -2 | -3 | -3 | -2 | -3 | -5 | -8 | -13 | -11 | -7 | -4 | -3 |
| 3 | 3 | 4 | 4 | 3 | 0 | -1 | -3 | -3 | -3 | -2 | -5 | -13 | -15 | -15 | -14 | -7 | -4 | -3 |
| -4 | -2 | -1 | 0 | 1 | 0 | -1 | -2 | -3 | -3 | -1 | 3 | 5 | 4 | 3 | 1 | 0 | 1 | 2 |
| 3 | 4 | 5 | 6 | 8 | 11 | 15 | 18 | -2 | -3 | 24 | 23 | 21 | 20 | 18 | 17 | 14 | 11 | 8 |
| 7 | 5 | 4 | 4 | 3 | 2 | 2 | 3 | 4 | 6 | -4 | -5 | -5 | -2 | 2 | 1 | -2 | -3 | -4 |
| -4 | -3 | -1 | 0 | 2 | 7 | 7 | 7 | 8 | 7 | 7 | 8 | 9 | 10 | 12 | 13 | 12 | 11 | 10 |
| 10 | 10 | 9 | 9 | 8 | 14 | 13 | 12 | 9 | 6 | 6 | 3 | 5 | 5 | 5 | 5 | 6 | 7 | 8 |
| 4 | 7 | 7 | 7 | 7 | 14 | 13 | 12 | 9 | 6 | 4 | 3 | 4 | 4 | 5 | 4 | 4 | 4 | 3 |
| 3 | 2 | 1 | 1 | 1 | 2 | 5 | 4 | 3 | 1 | 0 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 3 |
| 3 | 2 | 1 | 0 | -2 | -4 | -7 | -10 | -13 | -14 | -15 | -14 | -13 | -13 | -13 | -11 | -7 | -4 | -3 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|
| -4 | 9 | -4 | -3 | 0 | 3 | 5 | 7 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 11 | 10 | 10 | 9 |
| -11 | -12 | 8 | -12 | 7 | -12 | 6 | -12 | 0 | -3 | -4 | -4 | -5 | -6 | -7 | -8 | -8 | -9 | -9 | -10 |
| 4 | 5 | 5 | 7 | 7 | 9 | 8 | 8 | 6 | -11 | -9 | -5 | -3 | -2 | -1 | -1 | 0 | 0 | 1 | 2 |
| -3 | 4 | -7 | -5 | 4 | -7 | 4 | -7 | -2 | -7 | -6 | -4 | -1 | 4 | 3 | 2 | 2 | 3 | 3 | -3 |
| 4 | 4 | 4 | 4 | 4 | 5 | 5 | 0 | -1 | -1 | 0 | 1 | 4 | -1 | -1 | 0 | 0 | -2 | -2 | 4 |
| -2 | -2 | -1 | -1 | 0 | -2 | -1 | -1 | -3 | -1 | -1 | -1 | -1 | -2 | -3 | -1 | 1 | 1 | 1 | 0 |
| -2 | 3 | 5 | 6 | 7 | 8 | 7 | 6 | 2 | 5 | 4 | 2 | 2 | 3 | 3 | -1 | 0 | 2 | 2 | 2 |
| 2 | 2 | 2 | 3 | 4 | 4 | 3 | 5 | 6 | 5 | 3 | 1 | 1 | 2 | 2 | 4 | 5 | 6 | 7 | 7 |
| 7 | 7 | 6 | 5 | 4 | 4 | 3 | 4 | 6 | 5 | 3 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 6 |
| 6 | 6 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 2 | -1 | -5 | -6 | -7 | -6 | -6 | -5 | -5 | -4 | -4 |
| -3 | -3 | -2 | -1 | 0 | -2 | -4 | -4 | -3 | -1 | 2 | 3 | 2 | 1 | 0 | -2 | -3 | -4 | -4 | -3 |
| -2 | -2 | -2 | -3 | -4 | -3 | -5 | -5 | -1 | -2 | -3 | -7 | -6 | -5 | -4 | -3 | -3 | -4 | -4 | -4 |
| 2 | 2 | 2 | 3 | 3 | 2 | 0 | -1 | 0 | 1 | 3 | 4 | 5 | 5 | 4 | 4 | 2 | 0 | 1 | 1 |
| -5 | -5 | -5 | -5 | -3 | -6 | -3 | -6 | -1 | -5 | -5 | -4 | -4 | -4 | -5 | -6 | -6 | -6 | -5 | -4 |
| -3 | -3 | -3 | -3 | -3 | -3 | 0 | -2 | -1 | 0 | 2 | 4 | 5 | 5 | 4 | 4 | 3 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | -1 | 0 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 2 | 1 | 0 | -1 |
| -3 | -3 | -4 | -4 | -4 | -3 | -3 | -4 | -5 | -5 | -4 | -4 | -3 | -1 | 0 | 0 | 1 | 0 | -1 | -2 |
| -2 | -2 | -1 | 0 | 1 | 2 | 3 | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 3 | 2 | 1 | -1 | -1 | -4 |
| -3 | -3 | -2 | 0 | 0 | -1 | 0 | 0 | 0 | -1 | -2 | 0 | -1 | -2 | -3 | -3 | -3 | -3 | -3 | -3 |
| -6 | -6 | -7 | -7 | -7 | -5 | -6 | -6 | -6 | -6 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -7 | -6 | -5 |
| 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 4 | 2 | 3 | 3 | 3 | 4 | 5 | 2 | 0 | -1 | -2 | -3 | -3 | -3 | -3 | -2 | -1 | 0 | 0 | 1 |
| 2 | 7 | 7 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 5 | 4 | 4 | 4 | 4 | 4 | 6 | 6 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 8 | 9 | 10 | 10 | 10 | 10 | 11 | 13 |
| 5 | 5 | 5 | 5 | 5 | 7 | 14 | 14 | 14 | 14 | 12 | 11 | 12 | 11 | 10 | 10 | 10 | 10 | 11 | 13 |
| 15 | 15 | 15 | 15 | 15 | 14 | 10 | 12 | 12 | 14 | 9 | 6 | 5 | 5 | 6 | 8 | 8 | 8 | 8 | 8 |
| 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 6 | 6 | 10 | 9 | 9 | 9 | 8 | 6 |
| 6 | 6 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 0 | -2 | -4 | -4 | 6 | 5 | 6 | 6 | 6 | 6 |
| -4 | -4 | -3 | -3 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -3 | -2 | -4 | -3 | -3 | -3 | -5 | -3 |
| -3 | -3 | -6 | -6 | -7 | -2 | -8 | -2 | -2 | -3 | -3 | -4 | -7 | -7 | -4 | -4 | -5 | -5 | -5 | -3 |
| -5 | -5 | -4 | -4 | -4 | -5 | -5 | -6 | -7 | -10 | -9 | -8 | -6 | -6 | -6 | -5 | -5 | -5 | -5 | -5 |
| -4 | -4 | -4 | -5 | -6 | -7 | -7 | -7 | -7 | -8 | -10 | -12 | -12 | -11 | -10 | -8 | -7 | -5 | -4 | -4 |
| -9 | -9 | -9 | -9 | -12 | -11 | -9 | -9 | -8 | -8 | -8 | -10 | -12 | -11 | -10 | -8 | -7 | -5 | -4 | -4 |
| -8 | -8 | -3 | -3 | -3 | -4 | -5 | -5 | -6 | -6 | -5 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 |
| -5 | -5 | -6 | -6 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -2 | -1 | -2 | -2 | -4 | -4 | -4 | -4 | -4 |
| -4 | -4 | -5 | -5 | -4 | -4 | -4 | -4 | -4 | -4 | -5 | -6 | -6 | -6 | -5 | -4 | -3 | -2 | -1 | -1 |
| 0 | 0 | 0 | 0 | 0 | -2 | -2 | -3 | -4 | -5 | -5 | -4 | -4 | -6 | -8 | -9 | -8 | -2 | -7 | -5 |
| -3 | -3 | -3 | -4 | -5 | -3 | -3 | -3 | -3 | -4 | -5 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 | -6 |
| 1 | 1 | 1 | 2 | 2 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 8 | 7 | 6 | 4 | 2 |

[illegible]

[illegible]

IIV331 65.006.0 SOUTHERN CALIFORNIA EARTHQUAKE JUL 15, 1965 - 2346 PST EPICENTER - 34 24 00N, 118 36 00W
 STATION NO. 110 OLD RIDGE ROUTE (CWR SITE), CASTAIC, CAL. COMP SOUTH 34 33 18N, 118 39 24W
 INSTR PERIOD = 0.050 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -40.4 CM/SEC/SEC AT 0.22 SEC VELO = 2.1 CM/SEC AT 7.16 SEC DISP = 0.9 CM AT 1.92 SEC

INITIAL VELO = -1.74065 CM/SEC INITIAL DISP = -0.06257 CM
 360 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|-----|-----|-----|------|------|------|-----|-----|-----|------|------|------|------|------|
| -148 | 56 | 152 | 162 | 240 | 278 | 200 | 146 | 148 | 3 | -334 | -404 | -30 | 281 | 146 | -57 | 24 | 16 | -103 | 1 |
| 147 | 163 | 147 | 100 | -45 | -135 | -94 | 32 | 104 | 26 | -135 | -127 | -1 | 36 | 12 | 17 | 21 | 66 | 189 | 308 |
| 237 | -19 | -181 | -156 | -136 | -137 | -88 | 8 | 55 | 42 | 65 | 119 | 123 | 92 | 87 | 25 | -87 | -192 | -210 | -118 |
| -64 | -99 | -159 | -181 | -139 | -36 | 136 | 276 | 295 | 205 | 60 | -35 | 0 | 41 | 33 | -6 | -75 | -153 | -191 | -174 |
| -138 | -113 | -80 | -31 | 47 | 105 | 126 | 102 | 79 | 61 | 53 | 31 | -6 | -52 | -97 | -153 | -191 | -171 | -131 | -57 |
| 12 | 44 | 75 | 134 | 193 | 208 | 165 | 75 | -40 | -116 | -134 | -115 | -74 | -34 | -2 | 20 | 10 | -9 | -13 | -31 |
| -45 | -43 | -20 | 19 | 48 | 50 | 42 | 30 | 14 | -8 | -23 | -27 | -20 | -22 | -31 | -29 | -27 | -27 | -23 | -11 |
| 0 | 5 | 8 | 16 | 40 | 38 | -2 | -36 | -46 | -23 | 2 | 7 | -1 | 9 | 30 | 56 | 50 | 16 | -21 | -56 |
| -75 | -72 | -47 | -12 | 8 | 13 | 19 | 16 | 22 | 40 | 37 | 18 | -2 | -24 | -39 | -25 | 1 | 15 | 20 | 19 |
| 20 | 19 | 16 | 18 | 26 | 7 | -15 | -11 | 2 | 6 | -10 | -24 | -32 | -26 | -5 | 10 | 19 | 21 | 11 | 2 |
| -4 | -10 | -10 | 6 | 13 | -3 | 0 | 9 | 11 | -6 | -31 | -43 | -20 | -4 | 3 | 0 | 1 | 12 | 8 | 12 |
| 26 | 34 | 34 | 17 | -2 | -11 | -9 | 11 | 8 | -24 | -31 | -15 | -8 | -15 | -25 | -25 | -17 | -1 | 13 | 17 |
| 20 | 22 | 32 | 46 | 49 | 30 | 14 | 2 | -7 | -11 | -23 | -35 | -33 | -23 | -13 | 0 | 17 | 44 | 56 | 34 |
| 23 | 26 | 26 | 12 | -8 | -23 | -34 | -39 | -34 | -17 | 6 | 29 | 40 | 28 | 14 | -2 | -5 | 0 | 5 | 4 |
| -11 | -32 | -30 | -14 | 19 | 56 | 68 | 45 | 9 | -4 | 8 | 21 | 26 | 14 | -10 | -30 | -36 | -17 | -3 | 1 |
| 5 | 5 | 5 | 9 | 18 | 26 | 27 | 10 | -12 | -15 | 6 | 22 | 20 | 14 | 16 | 18 | 21 | 25 | 30 | 36 |
| 43 | 36 | 27 | 19 | 11 | 1 | -21 | -52 | -75 | -70 | -36 | -9 | 15 | 35 | 48 | 47 | 49 | 53 | 58 | 59 |
| 58 | 55 | 41 | 17 | -8 | -34 | -42 | -18 | 6 | 28 | 49 | 68 | 78 | 73 | 63 | 47 | 30 | 13 | -9 | -26 |

IIV331 65.006.0 SOUTHERN CALIFORNIA EARTHQUAKE JUL 15, 1965 - 2346 PST EPICENTER - 34 24 00N, 118 36 00W
 STATION NO. 110 OLD RIDGE ROUTE (CWR SITE), CASTAIC, CAL. COMP EAST 34 33 18N, 118 39 24W
 INSTR PERIOD = 0.050 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -35.9 CM/SEC/SEC AT 0.30 SEC VELO = -1.1 CM/SEC AT 0.34 SEC DISP = 0.4 CM AT 3.28 SEC

INITIAL VELO = -0.66828 CM/SEC INITIAL DISP = 0.01410 CM

360 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|------|------|------|------|-----|-----|-----|------|------|-----|-----|------|------|------|------|------|-----|-----|-----|
| 96 | 13 | -52 | -104 | -63 | 28 | 85 | 25 | -83 | -95 | 69 | 234 | 252 | 113 | -171 | -359 | -222 | 99 | 206 | 127 |
| 145 | 165 | -28 | -271 | -213 | 60 | 237 | 151 | -12 | -46 | 25 | 37 | 10 | -37 | -82 | -62 | -4 | 29 | 33 | 27 |
| -23 | -101 | -121 | -20 | 116 | 171 | 133 | 76 | 70 | 90 | 41 | -63 | -170 | -198 | -167 | -102 | 11 | 126 | 159 | 115 |
| 26 | -38 | -35 | 20 | 77 | 98 | 43 | -50 | -121 | -102 | -33 | 46 | 92 | 79 | 46 | 15 | 3 | 29 | 69 | 58 |
| -36 | -143 | -169 | -128 | -49 | 20 | 70 | 93 | 74 | 42 | 49 | 50 | 20 | -38 | -71 | -54 | -53 | -36 | 6 | 18 |
| 20 | 7 | -8 | -9 | 14 | 35 | 33 | 9 | -14 | 2 | 38 | 52 | 43 | 16 | -33 | -77 | -91 | -78 | -29 | 15 |
| 27 | 28 | 55 | 48 | 7 | -30 | -66 | -67 | -31 | 20 | 59 | 59 | 48 | 34 | 15 | -9 | -37 | -46 | -42 | -39 |
| -31 | -16 | -1 | 17 | 37 | 42 | 30 | 13 | -27 | -73 | -86 | -64 | -33 | -6 | 21 | 49 | 79 | 93 | 64 | 16 |
| -23 | -57 | -67 | -61 | -55 | -43 | -18 | 10 | 11 | 3 | -16 | -28 | -17 | 2 | 8 | -2 | -22 | -18 | -5 | 8 |
| -7 | -37 | -39 | -40 | -32 | -15 | 8 | 32 | 45 | 33 | 7 | -5 | -18 | -36 | -31 | -9 | 8 | 23 | 34 | 39 |
| 35 | 16 | -5 | -18 | -20 | -21 | -12 | 4 | 11 | 14 | 12 | 2 | -1 | 3 | 3 | -5 | -14 | -14 | 15 | 27 |
| 11 | 16 | 19 | -2 | -27 | -30 | -20 | -9 | -15 | -10 | 20 | 54 | 59 | 31 | 6 | -5 | 4 | 20 | 6 | -9 |
| -12 | -13 | -7 | 11 | 29 | 31 | 3 | -14 | -5 | 10 | 20 | 7 | -17 | -24 | -22 | -8 | 19 | 31 | 19 | 8 |
| -3 | -15 | -24 | -20 | -7 | 4 | 14 | 12 | -8 | -21 | -15 | -4 | 5 | 15 | 25 | 34 | 30 | 9 | -10 | -18 |
| -20 | -24 | -22 | -8 | 8 | 9 | -1 | -1 | 22 | 52 | 72 | 60 | 20 | -6 | -20 | -20 | -9 | -5 | -14 | -26 |
| -32 | -29 | -17 | 12 | 33 | 27 | 13 | -8 | -6 | 2 | -5 | -18 | -21 | -10 | 13 | 23 | 19 | -4 | -26 | -33 |
| -19 | 13 | 27 | 30 | 16 | -7 | -22 | -19 | 8 | 18 | 0 | -12 | -11 | -9 | 4 | 24 | 33 | 28 | 23 | 18 |
| 10 | 0 | -9 | -16 | -24 | -30 | -20 | 9 | 41 | 63 | 54 | 35 | 20 | 9 | 3 | 0 | 0 | -3 | -8 | -10 |

IIV331 65.006.0 SOUTHERN CALIFORNIA EARTHQUAKE JUL 15, 1965 - 2346 PST
 STATION NO. 110 OLD RIDGE ROUTE (CHR SITE), CASTAIC, CAL.
 INSTR PERIOD = 0.050 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = 26.3 CM/SEC/SEC AT 0.40 SEC VELO = 0.6 CM/SEC AT 0.44 SEC DISP = -0.2 CM AT 4.32 SEC

INITIAL VELO = -0.12558 CM/SEC INITIAL DISP = -0.01067 CM
 360 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|
| -80 | 42 | 92 | 62 | 14 | -34 | -79 | -61 | -5 | 1 | -16 | 26 | 78 | 75 | 16 | 23 | -1 | -138 | -144 | 62 |
| 263 | 172 | -112 | -198 | -96 | 12 | 35 | -1 | 22 | 40 | -24 | -56 | -6 | 37 | 25 | -2 | -14 | -20 | 15 | 74 |
| 75 | 3 | -57 | -72 | -20 | 47 | 95 | 48 | -35 | -68 | -74 | -45 | 25 | 75 | 62 | 9 | -32 | -72 | -75 | -60 |
| -43 | -10 | 36 | 41 | 32 | 38 | 17 | 23 | 6 | -35 | -49 | -40 | -11 | 23 | 52 | 37 | -7 | -20 | -11 | 7 |
| 17 | 20 | 11 | 8 | 20 | 14 | -3 | -1 | -8 | -6 | 10 | 25 | 26 | 7 | -22 | -15 | 2 | -7 | -17 | -11 |
| 3 | 6 | 6 | 5 | 18 | 43 | 25 | -14 | -34 | -42 | -31 | -19 | -9 | -15 | -37 | -11 | 26 | 38 | 39 | 27 |
| 12 | -23 | -47 | -40 | -18 | 16 | 37 | 26 | -8 | -23 | -23 | -10 | 1 | 3 | 4 | 4 | 5 | 7 | 3 | 3 |
| 9 | 11 | 8 | 0 | -14 | -17 | -14 | -5 | 5 | 10 | 11 | 9 | 2 | 2 | 5 | 7 | 2 | -20 | -41 | -42 |
| -30 | -4 | 20 | 16 | -18 | -37 | -27 | -5 | 13 | 30 | 28 | 11 | -15 | -46 | -44 | -28 | -18 | -8 | 0 | 7 |
| 10 | 3 | 1 | 22 | 31 | 11 | -6 | -19 | -15 | 9 | 18 | 4 | -7 | -4 | 13 | 7 | -19 | -29 | -17 | -3 |
| 8 | 16 | 23 | 24 | 21 | 12 | 3 | 6 | 20 | 21 | 16 | 7 | -7 | 0 | 20 | 23 | 17 | 14 | 16 | 14 |
| 10 | 8 | 13 | 14 | -3 | -12 | 1 | 15 | 8 | -17 | -9 | -1 | 2 | 3 | 3 | 1 | -3 | -9 | -9 | -7 |
| -6 | -7 | -2 | 11 | 21 | 8 | -13 | -28 | -25 | -15 | -8 | -4 | -7 | -7 | -5 | -1 | 11 | 31 | 27 | 6 |
| -12 | -19 | -2 | 10 | 7 | 4 | 2 | -1 | -4 | -8 | -12 | -12 | -1 | 15 | 25 | 23 | 13 | 6 | -1 | -5 |
| -5 | -5 | -6 | -5 | 3 | 15 | 21 | 9 | -6 | -8 | -6 | 2 | 10 | 5 | -1 | -7 | -13 | -18 | -21 | -19 |
| -5 | 6 | -2 | -11 | -17 | -15 | -1 | 11 | 8 | 4 | 3 | 3 | 0 | -4 | -8 | -13 | -17 | -17 | -12 | -8 |
| -3 | 4 | 8 | 8 | 6 | -4 | -19 | -25 | -16 | -5 | -1 | -1 | 2 | 12 | 23 | 31 | 35 | 33 | 20 | 7 |
| 6 | 8 | 5 | -4 | -14 | -16 | -7 | 3 | 9 | 11 | 12 | 12 | 12 | 9 | 3 | -1 | -4 | -6 | -8 | -9 |

IIV332 66.010.0 NORTHERN CALIFORNIA EARTHQUAKE SEP 12, 1966 - 0841 PST
 STATION NO. 62 PACIFIC TEL. & TEL. BLDG., BSMT., SACRAMENTO, CAL
 INSTR PERIOD = 0.073 SEC DAMPING = 0.592 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.
 EPICENTER - 39 24 00N, 120 06 00W
 COMP SOUTH 38 35 00N, 121 30 00W

PEAK VALS ACCLN = 14.5 CM/SEC/SEC AT 10.78 SEC VELO = -1.6 CM/SEC AT 10.70 SEC DISP = -0.7 CM AT 14.80 SEC

INITIAL VELO = -0.14561 CM/SEC INITIAL DISP = -0.04220 CM
 2125 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| -2 | -1 | 3 | 4 | 3 | 2 | 2 | 1 | -1 | -2 | 1 | 5 | 8 | 11 | 13 | 13 | 11 | 6 | 4 | 2 |
| -1 | -4 | -7 | -7 | -7 | -5 | -2 | 7 | 7 | -1 | -6 | -7 | -7 | -6 | -7 | -7 | -5 | -3 | -2 | 0 |
| 2 | 2 | 0 | -4 | -8 | -8 | -2 | 7 | 4 | 4 | 3 | 4 | 6 | 6 | 4 | 1 | -2 | -4 | -6 | -7 |
| -7 | -8 | -8 | -5 | -1 | 2 | 7 | 11 | 12 | 13 | 12 | 11 | 12 | 14 | 15 | 14 | 9 | 5 | 1 | -3 |
| -6 | -7 | -6 | -6 | -6 | -5 | -2 | 1 | 1 | -1 | -1 | 1 | 6 | 11 | 15 | 14 | 12 | 7 | 2 | -2 |
| -5 | -5 | -4 | -2 | -2 | -1 | 1 | 5 | 8 | 8 | 6 | 4 | 1 | -2 | -5 | -5 | -4 | -3 | -2 | -4 |
| -5 | -2 | 2 | 7 | 9 | 7 | 5 | 5 | 7 | 7 | 4 | 2 | 2 | 0 | 0 | 2 | 3 | 2 | 1 | 2 |
| 2 | 0 | -4 | -7 | -9 | -10 | -11 | -10 | -7 | -2 | 2 | 2 | 1 | 1 | 1 | 0 | -3 | -7 | -13 | -17 |
| -19 | -17 | -11 | -4 | 5 | 16 | 23 | 27 | 23 | 16 | 8 | 4 | -1 | -7 | -10 | -11 | -9 | -6 | -6 | -5 |
| -3 | 0 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 0 | -1 | -2 | -1 | -3 | -6 | -7 | -7 | -6 | -5 | -3 |
| 0 | 2 | 0 | -3 | -4 | -3 | -4 | -5 | -5 | -2 | 4 | 8 | 12 | 16 | 17 | 13 | 9 | 5 | 1 | -4 |
| -6 | -7 | -3 | 2 | 9 | 13 | 14 | 10 | 5 | 0 | -4 | -8 | -9 | -10 | -9 | -11 | -14 | -17 | -16 | -13 |
| -7 | 1 | 6 | 4 | 0 | -1 | -1 | 0 | 2 | 5 | 6 | 6 | 4 | 1 | 0 | -1 | -2 | -2 | 0 | 2 |
| 1 | -3 | -6 | -6 | -2 | 1 | 4 | 5 | 5 | 5 | 5 | 2 | -4 | -9 | -9 | 0 | 12 | 21 | 22 | 20 |
| 19 | 18 | 12 | 4 | -6 | -15 | -24 | -30 | -27 | -17 | -8 | -5 | -5 | -7 | -11 | -16 | -18 | -19 | -19 | -17 |
| -15 | -13 | -11 | -10 | -8 | -5 | -3 | -1 | -3 | -8 | -10 | -13 | -14 | -9 | 1 | 12 | 19 | 16 | 7 | -3 |
| -12 | -19 | -27 | -31 | -25 | -14 | -1 | 13 | 28 | 42 | 54 | 49 | 39 | 24 | -4 | -23 | -29 | -26 | -19 | -11 |
| -5 | -1 | 1 | 1 | 2 | -3 | -18 | -39 | -46 | -30 | 1 | 29 | 39 | 31 | 22 | 21 | 29 | 45 | 73 | 102 |
| 117 | 108 | 76 | 47 | 27 | 10 | -16 | -56 | -96 | -108 | -86 | -48 | -8 | 21 | 29 | 23 | 13 | -7 | -40 | -82 |
| -116 | -128 | -113 | -73 | -12 | 54 | 91 | 94 | 84 | 70 | 46 | 0 | -47 | -62 | -52 | -41 | -41 | -40 | -27 | -4 |
| 20 | 30 | 23 | -1 | -32 | -60 | -70 | -61 | -46 | -27 | -6 | 17 | 29 | 27 | 19 | 13 | 7 | 8 | 19 | 31 |
| 39 | 47 | 58 | 69 | 66 | 51 | 33 | 15 | -4 | -18 | -15 | -1 | 8 | 6 | -7 | -20 | -23 | -22 | -28 | -26 |
| -7 | 19 | 41 | 52 | 59 | 64 | 57 | 26 | -19 | -52 | -65 | -67 | -58 | -33 | 6 | 42 | 52 | 45 | 39 | 37 |
| 31 | 20 | 10 | 1 | -11 | -23 | -21 | -1 | 29 | 56 | 78 | 89 | 84 | 68 | 46 | 22 | 22 | -23 | -31 | -30 |
| -23 | -20 | -23 | -28 | -29 | -31 | -38 | -41 | -36 | -19 | 1 | 15 | 21 | 23 | 23 | 23 | 23 | -23 | 15 | -3 |
| -22 | -31 | -33 | -32 | -27 | -16 | 4 | 21 | 22 | 12 | -6 | -17 | -24 | -28 | -39 | -56 | -70 | -76 | -71 | -62 |
| -50 | -36 | -22 | -7 | 3 | 8 | 5 | -9 | -35 | -68 | -100 | -113 | -103 | -75 | -32 | 17 | 72 | 118 | 141 | 145 |
| 129 | 103 | 76 | 54 | 39 | 25 | 14 | 6 | 3 | 7 | 17 | 32 | 50 | 67 | 77 | 70 | 42 | -4 | -44 | -54 |
| -38 | -20 | -9 | 6 | 24 | 35 | 31 | 13 | -14 | -39 | -52 | -57 | -59 | -61 | -64 | -63 | -50 | -26 | 0 | 20 |
| 32 | 35 | 30 | 14 | -10 | -32 | -50 | -57 | -55 | -40 | -24 | -14 | -10 | -7 | -5 | -3 | -1 | 5 | 14 | 26 |
| 36 | 38 | 27 | 11 | -8 | -26 | -39 | -44 | -39 | -29 | -18 | -11 | -6 | 0 | 8 | 21 | 36 | 45 | 44 | 33 |
| 14 | -7 | -27 | -39 | -43 | -42 | -36 | -25 | -8 | 7 | 14 | 12 | 6 | -1 | -9 | -18 | -26 | -32 | -42 | -54 |
| -65 | -64 | -51 | -35 | -19 | -1 | 19 | 37 | 59 | 76 | 77 | 62 | 40 | 17 | -5 | -19 | -22 | -18 | -12 | -8 |
| 0 | 10 | 23 | 35 | 42 | 40 | 32 | 22 | 13 | 5 | -1 | -2 | 3 | 15 | 32 | 50 | 63 | 69 | 71 | 69 |
| 59 | 45 | 35 | 31 | 28 | 21 | 13 | 4 | -5 | -20 | -39 | -56 | -65 | -61 | -53 | -43 | -28 | -11 | -2 | -5 |
| -14 | -22 | -28 | -38 | -50 | -50 | -36 | -19 | -7 | -7 | -11 | -17 | -23 | -29 | -34 | -39 | -41 | -42 | -37 | -26 |
| -11 | 10 | 30 | 44 | 50 | 43 | 34 | 27 | 23 | 21 | 19 | 13 | 5 | -1 | -2 | 2 | 10 | 25 | 47 | 63 |
| 69 | 62 | 47 | 33 | 21 | 9 | -4 | -16 | -22 | -22 | -21 | -17 | -6 | 12 | 28 | 36 | 40 | 45 | 49 | 47 |
| 39 | 31 | 24 | 17 | 12 | 11 | 11 | 11 | 9 | 8 | 9 | 8 | 3 | 1 | 3 | 6 | 1 | -10 | -22 | -26 |
| -23 | -18 | -16 | -15 | -13 | -6 | 2 | 4 | 4 | 5 | 10 | 15 | 18 | 12 | 0 | -15 | -28 | -38 | -48 | -56 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -60 | -60 | -53 | -47 | -40 | -23 | -2 | 14 | 20 | 19 | 18 | 15 | 10 | 5 | 0 | -5 | -10 | -14 | -16 | -16 |
| -17 | -14 | -9 | 3 | 15 | 19 | 16 | 11 | 11 | 15 | 17 | 10 | -2 | -11 | -10 | 3 | 19 | 34 | 39 | 35 |
| 32 | 30 | 27 | 25 | 20 | 12 | 0 | -10 | -18 | -20 | -17 | -15 | -16 | -20 | -24 | -24 | -23 | -26 | -32 | -40 |
| -48 | -59 | -67 | -68 | -58 | -42 | -21 | 6 | 33 | 52 | 62 | 65 | 65 | 65 | 63 | 55 | 43 | 29 | 19 | 10 |

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | -7 | -15 | -25 | -37 | -44 | -43 | -36 | -27 | -18 | -12 | -8 | -5 | -4 | -4 | -4 | -21 | -5 | -5 | -7 | -9 |
| -12 | -15 | -13 | -5 | 4 | 12 | 19 | 26 | 34 | 40 | 41 | 38 | 28 | 13 | 13 | 4 | -21 | -35 | -45 | -53 | -54 |
| -46 | -36 | -29 | -23 | -19 | -14 | -7 | -2 | 2 | 3 | 3 | 4 | 9 | 17 | 22 | 19 | 19 | 10 | 14 | -8 | -10 |
| -6 | -8 | -17 | -15 | -8 | -17 | -15 | -11 | -7 | -3 | 0 | 2 | 1 | -2 | -3 | 0 | 0 | 6 | 14 | 23 | 30 |
| 37 | 43 | 46 | 45 | 42 | 35 | 27 | 21 | 17 | 14 | 14 | 11 | 5 | -1 | -5 | -7 | -7 | -8 | -8 | -10 | -14 |
| -22 | -31 | -37 | -42 | -45 | -46 | -44 | -41 | -38 | -33 | -26 | -19 | -12 | -9 | -8 | -8 | -7 | -6 | -4 | -3 | 2 |
| 9 | 16 | 22 | 28 | 32 | 33 | 35 | 35 | 36 | 34 | 30 | 25 | 17 | 9 | 7 | 7 | 11 | 17 | 22 | 27 | 26 |
| 21 | 15 | 10 | 4 | -2 | -10 | -18 | -22 | -26 | -27 | -27 | -27 | -27 | -27 | -27 | -27 | -26 | -24 | -25 | -29 | -33 |
| -34 | -33 | -29 | -22 | -12 | -2 | 5 | 9 | 12 | 12 | 13 | 17 | 24 | 32 | 38 | 38 | 44 | 49 | 54 | 58 | 61 |
| -26 | -27 | -26 | -26 | -25 | -24 | -22 | -19 | -15 | -13 | -10 | -6 | -8 | -10 | -16 | -16 | -23 | -25 | -23 | -23 | -24 |
| 21 | 23 | 24 | 22 | 18 | 11 | -1 | -13 | -24 | -31 | -34 | -35 | -32 | -28 | -23 | -23 | -18 | -14 | -12 | 14 | 19 |
| -9 | -9 | -10 | -12 | -14 | -16 | -18 | -20 | -22 | -24 | -25 | -25 | -23 | -23 | -24 | -24 | -26 | -27 | -26 | -11 | -10 |
| -22 | -20 | -17 | -12 | -7 | -3 | 2 | 8 | 16 | 23 | 26 | 25 | 23 | 20 | 20 | 16 | 14 | 14 | -24 | 14 | -23 |
| 13 | 15 | 18 | 17 | 13 | -3 | 2 | -3 | -7 | -12 | -17 | -22 | -21 | -17 | -14 | -10 | -10 | -7 | -4 | 14 | 1 |
| 4 | 8 | 12 | 16 | 17 | 14 | 11 | 6 | 0 | -3 | -5 | -4 | -1 | 7 | 16 | 24 | 31 | 35 | 35 | -2 | 33 |
| 30 | 28 | 26 | 24 | 21 | 20 | 19 | 19 | 19 | 20 | 23 | 25 | 26 | 25 | 23 | 23 | 21 | 18 | 15 | 11 | 7 |
| 1 | -5 | -10 | -12 | -14 | -15 | -15 | -15 | -16 | -14 | -12 | -9 | -8 | -10 | -13 | -13 | -16 | -19 | -21 | -21 | -21 |
| -20 | -18 | -16 | -13 | -9 | -5 | -3 | -3 | -6 | -10 | -15 | -18 | -20 | -21 | -21 | -20 | -20 | -18 | -16 | -13 | -11 |
| -9 | -7 | -4 | -1 | 3 | 5 | 4 | 2 | -1 | -4 | -6 | -6 | -5 | -3 | -2 | -1 | -4 | 0 | 1 | 4 | 8 |
| 12 | 13 | 13 | 11 | 8 | 5 | 0 | -4 | -7 | -7 | -6 | -5 | -5 | -5 | -6 | -6 | -4 | -2 | 1 | 4 | 0 |
| 12 | 15 | 18 | 20 | 22 | 24 | 26 | 28 | 28 | 29 | 30 | 30 | 30 | 26 | 21 | 16 | 16 | 11 | 7 | 10 | 3 |
| -3 | -8 | -8 | -10 | -10 | -8 | -6 | -4 | -3 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 7 | 10 | 13 | 16 |
| 18 | 17 | 16 | 15 | 14 | 14 | 13 | 11 | 8 | 6 | 5 | 5 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 7 | 5 |
| 3 | 0 | -2 | -4 | -4 | -5 | -5 | -6 | -7 | -9 | -11 | -15 | -19 | -20 | -21 | -23 | -24 | -24 | -24 | -22 | -20 |
| -17 | -14 | -10 | -8 | -6 | -4 | -3 | -1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | -3 | -5 | -7 | -8 |
| -10 | -10 | -10 | -10 | -9 | -8 | -6 | -3 | -1 | -2 | -2 | 1 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 1 |
| -3 | -8 | -11 | -11 | -7 | -4 | -2 | -1 | -2 | -2 | -1 | 0 | -2 | -7 | -12 | -16 | -16 | -17 | -18 | -17 | -16 |
| -13 | -9 | -4 | 7 | 5 | 6 | 7 | 8 | 8 | 7 | 6 | 3 | 0 | 2 | -6 | -9 | 6 | 6 | 7 | 6 | 6 |
| 5 | 5 | 6 | 7 | 6 | 5 | 3 | 1 | 1 | 1 | 14 | 0 | -1 | -3 | -6 | -9 | -9 | -13 | -15 | -14 | -11 |
| -8 | -3 | 2 | 8 | 13 | 17 | 20 | 20 | 19 | 17 | 14 | 13 | 13 | 13 | 11 | 11 | 9 | 7 | 7 | 7 | 7 |
| 6 | 4 | 1 | -1 | -3 | -5 | -6 | -7 | -8 | -9 | -11 | -13 | -15 | -16 | -15 | -14 | -14 | -13 | -13 | -12 | -11 |
| -9 | -8 | -5 | -1 | 4 | 7 | 8 | 7 | 6 | 7 | 7 | 8 | 7 | 5 | 3 | 3 | 2 | 2 | -1 | -4 | -6 |
| -8 | -8 | -8 | -8 | -7 | -6 | -3 | 0 | 5 | 9 | 12 | 13 | 13 | 14 | 14 | 13 | 13 | 12 | 11 | 12 | 12 |
| 11 | 7 | 3 | -1 | -4 | -6 | -7 | -8 | -8 | -7 | -4 | -2 | -1 | 1 | 3 | 6 | 6 | 6 | 6 | 6 | 5 |
| 4 | 4 | 5 | 7 | 9 | 10 | 10 | 11 | 12 | 11 | 8 | 3 | -1 | -5 | -7 | -9 | -12 | -12 | -14 | -17 | -18 |
| -18 | -16 | -15 | -14 | -14 | -14 | -15 | -15 | -15 | -16 | -17 | -17 | -16 | -16 | -15 | -15 | -15 | -15 | -14 | -12 | -9 |
| -7 | -6 | -5 | -5 | -6 | -6 | -6 | -5 | -4 | -1 | 1 | 1 | 1 | 0 | -2 | -4 | -4 | -4 | -2 | -1 | 2 |
| 4 | 6 | 8 | 10 | 11 | 13 | 14 | 15 | 15 | 15 | 14 | 12 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 5 | 4 |
| 3 | 1 | 0 | -2 | -3 | -5 | -8 | -10 | -11 | -11 | -12 | -10 | -9 | -8 | -7 | -7 | -7 | -7 | -8 | -8 | -7 |
| -6 | -5 | -3 | -2 | 0 | 1 | 3 | 5 | 8 | 11 | 13 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 16 | 16 | 15 | 14 | 12 | 10 | 8 | 6 | 4 | 3 | 1 | -2 | -5 | -8 | -10 | -11 | -11 | -10 | -9 | -9 | -8 |
| -8 | -7 | -7 | -7 | -6 | -6 | -5 | -6 | -7 | -7 | -7 | -7 | -8 | -9 | -9 | -8 | -7 | -5 | -4 | -3 | -2 |
| -1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 1 | 0 | -1 | -1 | 0 | 0 | 1 | 1 | 1 | 2 |
| 3 | 3 | 1 | 0 | 1 | 1 | 1 | 0 | -1 | -2 | -3 | -2 | -2 | -1 | 0 | 2 | 2 | 4 | 6 | 8 | 9 |
| 10 | 10 | 11 | 12 | 11 | 9 | 7 | 5 | 3 | 2 | 3 | 5 | 6 | 8 | 8 | 8 | 6 | 4 | 3 | 2 | 3 |
| 4 | 5 | 6 | 6 | 6 | 5 | 5 | 4 | 3 | 2 | 1 | 0 | -2 | -3 | -4 | -6 | -6 | -8 | -8 | -8 | -7 |
| -7 | -6 | -5 | -6 | -6 | -6 | -5 | -3 | -1 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 |
| -6 | -7 | -7 | -6 | -5 | -4 | -3 | -2 | 0 | 3 | 0 | -4 | -7 | -8 | -8 | -6 | -6 | -6 | -6 | -6 | -5 |
| 9 | 10 | 11 | 11 | 11 | 10 | 9 | 8 | 6 | 3 | 2 | 1 | 0 | 0 | -1 | -3 | -3 | -3 | -3 | -3 | -2 |
| 6 | 7 | 8 | 8 | 9 | 8 | 6 | 5 | -9 | -8 | -8 | -8 | -7 | -7 | -7 | -6 | -6 | -5 | -5 | -5 | -4 |
| -10 | -12 | -13 | -13 | -11 | -9 | -8 | -8 | -9 | -8 | -8 | -8 | -7 | -7 | -7 | -7 | -6 | -6 | -5 | -4 | -2 |
| -1 | -2 | -3 | -3 | -4 | -2 | 0 | 2 | -8 | -6 | -4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 4 |
| 4 | 3 | 1 | -2 | -3 | -6 | -7 | -8 | -8 | -6 | -4 | -2 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 12 | 13 |
| 15 | 16 | 17 | 17 | 17 | 15 | 14 | 11 | 10 | 8 | 7 | 7 | 7 | 7 | 4 | 6 | 6 | 5 | 3 | 0 | -2 |

| | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|
| -5 | -6 | -6 | -6 | -6 | -6 | -6 | -7 | -9 | -10 | -9 | -8 | -6 | -5 | -3 | 0 |
| -1 | -2 | -3 | -4 | -5 | -6 | -6 | -6 | -6 | -6 | -6 | -5 | -4 | -3 | -2 | -1 |
| -1 | -1 | -1 | -1 | -1 | -1 | -1 | -2 | -1 | -1 | 0 | 1 | 2 | 4 | 4 | 3 |
| 3 | 3 | 3 | 3 | 3 | 4 | 5 | 5 | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 3 |
| 4 | 4 | 4 | 4 | 4 | 2 | 1 | 0 | -3 | -4 | -5 | -5 | -6 | -7 | -7 | -7 |
| -6 | -6 | -4 | -5 | -4 | -3 | -2 | -2 | -1 | -1 | 0 | 1 | 2 | 4 | 4 | 5 |
| 6 | 5 | 5 | 4 | 3 | 2 | 1 | 1 | -1 | -1 | -2 | -3 | -4 | -5 | -5 | -4 |
| -2 | -2 | -2 | -2 | -2 | 2 | 1 | 1 | -1 | -1 | -2 | -3 | -4 | -5 | -5 | -3 |

IIV332 66.010.0 STATION NO. 62
 INSTR PERIOD = 0.072 SEC
 NORTHERN CALIFORNIA EARTHQUAKE SEP 12, 1966 - 0841 PST
 PACIFIC TEL. & TEL. BLDG., BSMT., SACRAMENTO, CAL
 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.
 DAMPING = 0.592
 EPICENTER - 39 24 OON, 120 06 OOW
 COMP EAST 38 35 OON, 121 30 OOW

PEAK VALS ACCLN = -12.5 CM/SEC/SEC AT 7.02 SEC VELO = -1.7 CM/SEC AT 7.92 SEC DISP = -0.7 CM AT 13.96 SEC

2127 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.
 INITIAL VELO = -0.00314 CM/SEC INITIAL DISP = -0.08075 CM

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-----|-----|
| -5 | -4 | -8 | -10 | -7 | -4 | -2 | 0 | -1 | -2 | 2 | 6 | 4 | -1 | -4 | -5 | -4 | -2 | -2 |
| 1 | 7 | 16 | 20 | 17 | 12 | 6 | -1 | -9 | -14 | -13 | -9 | -4 | 3 | 8 | 9 | 7 | 6 | 3 |
| 2 | 2 | 2 | 1 | 0 | 3 | 9 | 14 | 13 | 6 | 1 | -2 | -3 | -6 | -9 | -8 | -6 | -4 | 2 |
| 4 | 7 | 9 | 10 | 9 | 7 | 3 | -1 | -4 | -7 | -10 | -15 | -17 | -17 | -15 | -13 | -12 | -13 | -10 |
| -3 | 5 | 10 | 11 | 8 | 5 | 3 | 3 | 3 | 1 | 1 | 3 | 6 | 4 | -1 | -4 | -6 | -5 | -3 |
| 1 | 3 | 4 | 6 | 6 | 6 | 4 | 1 | -2 | -1 | 2 | 5 | 7 | 7 | 6 | 5 | 6 | 6 | 6 |
| 8 | 9 | 7 | 3 | 0 | -2 | -3 | -2 | -2 | -4 | -5 | -6 | -6 | -6 | -4 | -4 | -6 | -5 | -4 |
| -3 | -3 | -2 | -1 | -1 | 1 | 6 | 10 | 12 | 12 | 12 | 9 | 6 | 2 | -1 | -2 | -1 | 0 | 1 |
| 2 | 3 | 0 | -2 | -3 | -4 | -4 | -4 | -4 | -4 | -5 | -5 | -4 | -3 | -2 | 1 | 3 | 5 | 2 |
| 0 | 1 | 2 | 2 | 0 | -2 | -4 | -7 | -8 | -8 | -5 | 0 | 4 | 6 | 7 | 7 | 6 | 7 | 8 |
| 8 | 8 | 7 | 6 | 5 | 4 | 1 | -2 | -4 | -6 | -5 | -2 | -3 | -7 | -11 | -11 | -9 | -8 | -5 |
| -6 | -7 | -8 | -6 | -4 | 0 | 5 | 9 | 10 | 9 | 8 | 9 | 12 | 14 | 12 | 9 | 7 | 6 | 9 |
| 8 | 6 | 5 | 7 | 6 | 3 | 2 | 2 | 1 | -2 | -5 | -3 | 0 | -2 | -1 | -1 | -1 | 0 | 1 |
| 1 | -4 | -11 | -17 | -22 | -23 | -22 | -26 | -28 | -22 | -12 | 0 | 8 | 10 | 6 | 1 | -1 | -2 | -3 |
| -2 | 0 | 2 | 4 | 6 | 5 | 0 | -4 | -3 | 1 | 2 | -1 | 1 | 4 | 6 | 4 | -7 | -21 | -40 |
| -33 | -15 | -6 | -13 | -21 | -20 | -12 | -5 | 1 | -1 | -13 | -28 | -39 | -39 | -33 | -22 | -9 | 3 | 11 |
| 29 | 43 | 50 | 42 | 21 | 4 | -6 | -5 | 0 | 2 | 2 | 12 | 32 | 46 | 46 | 54 | 53 | 52 | 54 |
| 58 | 51 | 44 | 43 | 49 | 57 | 55 | 28 | -23 | -77 | -116 | -125 | -104 | -68 | -30 | 0 | 24 | 40 | 23 |
| -34 | -25 | -1 | 21 | 30 | 30 | 29 | 32 | 25 | 1 | -30 | -55 | -61 | -45 | -23 | -8 | -5 | -14 | -27 |
| -53 | -61 | -56 | -40 | -25 | -18 | -17 | -19 | -25 | -38 | -59 | -78 | -93 | -88 | -62 | -29 | 11 | 42 | 58 |
| 84 | 98 | 104 | 93 | 76 | 61 | 52 | 54 | 54 | 49 | 46 | 48 | 50 | 40 | 12 | -32 | -69 | -80 | -51 |
| -19 | 18 | 45 | 49 | 32 | 5 | -20 | -41 | -57 | -52 | -32 | -9 | 8 | 24 | 42 | 54 | 46 | 26 | 8 |
| -5 | -6 | -9 | -13 | -17 | -15 | -1 | 16 | 19 | 4 | -15 | -33 | -48 | -57 | -54 | -34 | -14 | -5 | 1 |
| 40 | 51 | 49 | 44 | 43 | 46 | 47 | 43 | 37 | 27 | 13 | -8 | -36 | -50 | -43 | -31 | -24 | -19 | 17 |
| 35 | 41 | 40 | 42 | 42 | 30 | 12 | -8 | -27 | -34 | -25 | -11 | 7 | 28 | 44 | 48 | 42 | 32 | 19 |
| -14 | -35 | -52 | -57 | -60 | -56 | -35 | -9 | 10 | 22 | 28 | 27 | 21 | 14 | 7 | 5 | -2 | -10 | -19 |
| -27 | -27 | -19 | -1 | 22 | 40 | 42 | 27 | 9 | -8 | -29 | -58 | -88 | -108 | -115 | -114 | -104 | -85 | -61 |
| -7 | 1 | 1 | 7 | 24 | 41 | 47 | 49 | 57 | 57 | 45 | 29 | 17 | 17 | 25 | 36 | 52 | 64 | 59 |
| 55 | 51 | 44 | 37 | 31 | 28 | 24 | 18 | 11 | 3 | -6 | -14 | -22 | -28 | -31 | -29 | -23 | -15 | -5 |
| 6 | 16 | 14 | 6 | -1 | -1 | -3 | -15 | -32 | -49 | -60 | -55 | -38 | -23 | -16 | -23 | -31 | -33 | -23 |
| -16 | -9 | -8 | -14 | -25 | -35 | -40 | -36 | -24 | -8 | 11 | 29 | 45 | 49 | 45 | 38 | 28 | 16 | 3 |
| -8 | -10 | -13 | -18 | -20 | -22 | -20 | -17 | -20 | -24 | -29 | -34 | -41 | -49 | -52 | -42 | -22 | -5 | 12 |
| 52 | 59 | 49 | 33 | 17 | 5 | -1 | 2 | 8 | 14 | 17 | 16 | 9 | -5 | -18 | -26 | -31 | -34 | -27 |
| 15 | 35 | 46 | 50 | 49 | 43 | 35 | 26 | 18 | 12 | 5 | -1 | -5 | -4 | 2 | 10 | 8 | -1 | -10 |
| -25 | -35 | -42 | -42 | -35 | -23 | -16 | -11 | -4 | 5 | 12 | 12 | 13 | 22 | 35 | 47 | 56 | 59 | 63 |
| 59 | 51 | 46 | 45 | 44 | 38 | 30 | 21 | 10 | -2 | -11 | -25 | -33 | -40 | -40 | -44 | -43 | -40 | -39 |
| -53 | -58 | -60 | -58 | -57 | -54 | -40 | -22 | -7 | 3 | 10 | 21 | 31 | 38 | 42 | 47 | 54 | 60 | 57 |
| 44 | 38 | 32 | 26 | 21 | 14 | 14 | 22 | 33 | 41 | 44 | 44 | 44 | 45 | 45 | 43 | 33 | 17 | -1 |
| -30 | -38 | -44 | -42 | -31 | -19 | -9 | -1 | 0 | -4 | -9 | -12 | -14 | -13 | -12 | -14 | -16 | -18 | -17 |
| -5 | -3 | -4 | -5 | -4 | -2 | 3 | 11 | 17 | 16 | 12 | 8 | 1 | -9 | -21 | -28 | -29 | -25 | -20 |
| -18 | -18 | -16 | -12 | -8 | -5 | -4 | -2 | -1 | -3 | -6 | -4 | 0 | 4 | 6 | 7 | 7 | 7 | 7 |
| 0 | -4 | -7 | -7 | -5 | -3 | -1 | 2 | 6 | 10 | 9 | 4 | 1 | 1 | 5 | 10 | 14 | 17 | 16 |
| 11 | 8 | 6 | 3 | -1 | -9 | -22 | -35 | -41 | -44 | -48 | -52 | -55 | -56 | -55 | -50 | -39 | -23 | -7 |
| 15 | 19 | 16 | 9 | -1 | -5 | -2 | 3 | 9 | 15 | 20 | 23 | 23 | 22 | 18 | 11 | 1 | -11 | -27 |

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -46 | -40 | -35 | -27 | -14 | -1 | 12 | 22 | 33 | 43 | 51 | 56 | 53 | 45 | 38 | 28 | 18 | 4 | -13 |
| -30 | -46 | -44 | -38 | -30 | -23 | -17 | -14 | -11 | -8 | -4 | -2 | 0 | 5 | 11 | 15 | 18 | 20 | 20 |
| 21 | 19 | 14 | 12 | 12 | 14 | 17 | 17 | 13 | 8 | -4 | -17 | -28 | -37 | -43 | -48 | -51 | -53 | -54 |
| -49 | -19 | -8 | 3 | 0 | 2 | 5 | 8 | 13 | 21 | 28 | 35 | 40 | 46 | 49 | 52 | 53 | 54 | 51 |
| 43 | 33 | 22 | 7 | 6 | 6 | 7 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 5 | 2 | -3 | -9 | -14 |
| -17 | -21 | -34 | -36 | -34 | -31 | -29 | -27 | -24 | -21 | -14 | -7 | 0 | 5 | 8 | 13 | 20 | 28 | 33 |
| 34 | 29 | 27 | 26 | 25 | 22 | 18 | 13 | 9 | 8 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 6 |
| 4 | 3 | 6 | 6 | 1 | -2 | -5 | -8 | -14 | -23 | -30 | -33 | -34 | -33 | -31 | -27 | -23 | -24 | -27 |
| -29 | -29 | -25 | -22 | -19 | -15 | -12 | -7 | 0 | 7 | 12 | 16 | 17 | 15 | 15 | 15 | 15 | 15 | 14 |
| 18 | 20 | 19 | 17 | 13 | 4 | -5 | -12 | -14 | -15 | -14 | -12 | -10 | -7 | -3 | 2 | 7 | 11 | 15 |
| -2 | 6 | 7 | 4 | 2 | 4 | 1 | -3 | -6 | -16 | -16 | -13 | -11 | -8 | -6 | -6 | -7 | -6 | -5 |
| 11 | 12 | 14 | 17 | 19 | 20 | 20 | 18 | 17 | 15 | 11 | 2 | 0 | 4 | 9 | 12 | 14 | 13 | 12 |
| -27 | -21 | -16 | -9 | -5 | -3 | -6 | -8 | -13 | -17 | -21 | -22 | -21 | -24 | -29 | -30 | -31 | -33 | -32 |
| 8 | 7 | 6 | 5 | 3 | -1 | -4 | -8 | -11 | -13 | -14 | -13 | -13 | -13 | -14 | -9 | -3 | 3 | 6 |
| -17 | -10 | -3 | 4 | 10 | 14 | 16 | 13 | 10 | 7 | 5 | 3 | 2 | 2 | 6 | 12 | 17 | 20 | -15 |
| 25 | 26 | 23 | 19 | 13 | 9 | 7 | 7 | 6 | 6 | 8 | 11 | 14 | 14 | 10 | 7 | 5 | 3 | 2 |
| 1 | -4 | -6 | -7 | -7 | -6 | -6 | -5 | -5 | -6 | -9 | -11 | -11 | -9 | -7 | -5 | -2 | 2 | 4 |
| 2 | 3 | 5 | 6 | 4 | 3 | 4 | 7 | 10 | 13 | 4 | 2 | 1 | 0 | 0 | 2 | 3 | 2 | 0 |
| -3 | -1 | 2 | 4 | 4 | 3 | 4 | 7 | 10 | 13 | 15 | 16 | 15 | 12 | 7 | 0 | -5 | -9 | -10 |
| -11 | -7 | -5 | -3 | -3 | -3 | -5 | -9 | -15 | -19 | -22 | -21 | -18 | -14 | -8 | -3 | 1 | 4 | 7 |
| 10 | 15 | 16 | 16 | 15 | 14 | 13 | 12 | 10 | 7 | 3 | 1 | -1 | -3 | -5 | -6 | -5 | -1 | 4 |
| 8 | 10 | 10 | 10 | 10 | 7 | 4 | -1 | -7 | -11 | -12 | -11 | -8 | -3 | 1 | 6 | 9 | 12 | 13 |
| 14 | 13 | 13 | 13 | 13 | 14 | 15 | 16 | 18 | 20 | 21 | 20 | 16 | 13 | 11 | 9 | 7 | 4 | -1 |
| -2 | -3 | -6 | -6 | -5 | -3 | -1 | 1 | 2 | 1 | -1 | -4 | -4 | -2 | 0 | 1 | 2 | 2 | 2 |
| 3 | 3 | 3 | 5 | 8 | 11 | 13 | 13 | 12 | 9 | 6 | 2 | -2 | -8 | -13 | -18 | -20 | -20 | -19 |
| -15 | -11 | -10 | -10 | -7 | -5 | -2 | -15 | -1 | 0 | 0 | 0 | -12 | -10 | 5 | 6 | 6 | 5 | 4 |
| 3 | -6 | -10 | -12 | -13 | -13 | -14 | -15 | -15 | -15 | -15 | -14 | -12 | -7 | -8 | -7 | -4 | 1 | 4 |
| 4 | 4 | 4 | 6 | 9 | 10 | 8 | 4 | 1 | -1 | -2 | -3 | -5 | -7 | -10 | -11 | -12 | -12 | -13 |
| -13 | -11 | -6 | -3 | 0 | -1 | 2 | 5 | 6 | 6 | 5 | 6 | 8 | 12 | 14 | 13 | 12 | 11 | 10 |
| 9 | 12 | 15 | 17 | 17 | 17 | 17 | 17 | 16 | 15 | 13 | 11 | 10 | 8 | 7 | 6 | 5 | 4 | 2 |
| 0 | -5 | -9 | -10 | -10 | -10 | -10 | -12 | -14 | -16 | -17 | -17 | -18 | -17 | -14 | -11 | -10 | -9 | -8 |
| -7 | -8 | -9 | -9 | -9 | -10 | -9 | -7 | -4 | -1 | 2 | 3 | 3 | 3 | 1 | -2 | -5 | -8 | -10 |
| -10 | -3 | -2 | -1 | -4 | -6 | -10 | -13 | -13 | -13 | -13 | -12 | -10 | -6 | -1 | 3 | 5 | 6 | 7 |
| 6 | 3 | 1 | -1 | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 6 | 6 | 5 | 4 |
| 2 | 2 | 0 | -3 | -4 | -3 | 0 | 4 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 3 | 1 | -2 | -4 |
| -5 | -6 | -7 | -8 | -9 | -8 | -6 | -4 | -2 | -2 | -2 | -2 | -3 | -4 | -5 | -7 | -10 | -12 | -13 |
| -12 | -13 | -13 | -11 | -10 | -8 | -8 | -9 | -11 | -10 | -9 | -7 | -5 | -4 | -1 | -1 | -1 | 0 | 1 |
| 1 | 2 | 2 | 3 | 3 | 2 | 0 | -2 | -2 | -1 | 0 | 0 | 0 | -1 | -2 | -1 | 1 | 1 | 0 |
| -2 | -3 | -3 | -3 | -3 | -3 | -2 | 0 | 2 | 5 | 8 | 10 | 10 | 10 | 10 | 10 | 8 | 4 | 0 |
| -3 | -3 | -1 | 0 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 2 | 1 | 2 | 3 | 4 | 4 | 3 | 3 |
| 3 | 3 | 2 | 2 | 2 | 4 | 6 | 8 | 10 | 11 | 11 | 9 | 8 | 7 | 7 | 6 | 6 | 7 | 7 |
| 7 | 5 | 4 | 4 | 2 | 0 | -3 | -6 | -7 | -8 | -8 | -6 | -4 | -3 | -2 | -1 | -1 | -2 | -4 |
| -5 | -7 | -8 | -10 | -9 | -8 | -6 | -6 | -5 | -3 | -1 | 0 | 0 | 1 | 3 | 5 | 7 | 8 | 8 |
| 7 | 5 | 5 | 6 | 6 | 6 | 5 | 4 | 2 | 1 | 0 | -2 | -3 | -4 | -4 | -4 | -3 | -3 | -3 |
| -3 | 0 | 2 | 3 | 5 | 8 | 10 | 11 | 11 | 10 | 8 | 6 | 5 | 4 | 3 | 2 | 2 | 2 | 2 |
| 2 | -2 | 2 | 3 | 3 | 6 | 10 | 11 | 11 | 10 | 8 | 6 | 5 | 4 | 3 | 2 | 2 | 2 | 2 |
| 2 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 3 | 2 |
| 2 | 1 | 0 | 1 | 3 | -4 | -5 | -6 | -6 | -7 | -8 | -7 | -5 | 0 | 3 | 4 | 4 | 4 | 3 |
| 2 | 2 | 2 | 1 | 1 | -4 | -6 | -7 | -8 | -8 | -7 | -6 | -4 | -2 | 0 | 2 | 4 | 5 | 2 |
| 7 | 6 | 4 | 3 | 3 | -2 | -1 | -5 | -6 | -7 | -8 | -9 | -8 | -7 | -6 | -4 | -3 | -2 | -2 |
| -2 | -3 | -3 | -2 | -1 | 0 | -1 | -2 | -2 | -1 | 0 | 2 | 4 | 5 | 8 | 8 | 6 | 4 | 4 |
| -2 | -3 | -4 | -5 | -6 | -6 | -5 | -4 | -4 | -3 | -2 | -1 | 1 | 3 | 2 | 2 | 0 | -2 | -3 |
| -4 | -6 | -6 | -6 | -5 | -5 | -5 | -4 | -3 | -2 | -2 | -2 | -3 | -4 | -4 | -4 | -3 | -2 | -3 |
| 6 | 7 | 8 | 8 | 7 | 6 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 4 | 3 | 2 | 2 | 2 | 2 |

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| -1 | -2 | -3 | -4 | -5 | -6 | -6 | -5 | -4 | -4 | -4 | -4 | -3 | -3 | -3 | -3 | -3 |
| -3 | -3 | -3 | -3 | -3 | -5 | -6 | -7 | -9 | -9 | -9 | -9 | -8 | -7 | -7 | -4 | -4 |
| -1 | 1 | 1 | -1 | -3 | -5 | -5 | -5 | -5 | -4 | -3 | -3 | -1 | 5 | 6 | 7 | 8 |
| 7 | 4 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 0 | -1 | -1 | 1 | 4 |
| 4 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | 0 | -1 | -1 | -2 | -4 | -4 | -4 | -4 |
| -4 | -4 | -3 | -2 | -1 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 1 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 2 | 3 | 3 | 4 | 4 |

IIV332 66.010.0 NORTHERN CALIFORNIA EARTHQUAKE SEP 12, 1966 - 0841 PST EPICENTER - 39 24 00N, 120 06 00W
 STATION NO. 62 PACIFIC TEL. & TEL. BLDG., BSMT., SACRAMENTO, CAL COMP UP 38 35 00N, 121 30 00W
 INSTR PERIOD = 0.071 SEC DAMPING = 0.574 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

PEAK VALS ACCLN = -8.1 CM/SEC/SEC AT 7.00 SEC VELO = 0.8 CM/SEC AT 5.72 SEC DISP = -0.6 CM AT 30.82 SEC

2128 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

INITIAL VELO = -0.07526 CM/SEC INITIAL DISP = 0.13277 CM

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -2 | 2 | -3 | 1 | 0 | -4 | -6 | -8 | -11 | -14 | -14 | -5 | 8 | 11 | 1 | -9 | -7 | 3 | 15 |
| 18 | 13 | 4 | -2 | -11 | -19 | -21 | -9 | 7 | 15 | 15 | 12 | 5 | 5 | -9 | -8 | -7 | -8 | -6 |
| 0 | 3 | 0 | -1 | 5 | 0 | -5 | -8 | -7 | -3 | -3 | 2 | 5 | 5 | 5 | 5 | 4 | 1 | -2 |
| -3 | -1 | 1 | 4 | 8 | 5 | 2 | 1 | 2 | 7 | 10 | 7 | 1 | -3 | -3 | 0 | 4 | 6 | 3 |
| 0 | -2 | -3 | -5 | -7 | -5 | 0 | -1 | -4 | 0 | 0 | -2 | 6 | 13 | 15 | 14 | 10 | 3 | -5 |
| -10 | -10 | -9 | -9 | -9 | -10 | -8 | -1 | 4 | 10 | 13 | 11 | 5 | -1 | -8 | -12 | -14 | -11 | -6 |
| -2 | 0 | 1 | 0 | 2 | 1 | -4 | -7 | -5 | 1 | 9 | 14 | 11 | 4 | -3 | -4 | -2 | -4 | -4 |
| 1 | 6 | 6 | 4 | 2 | 4 | 4 | 1 | -3 | -7 | -4 | 2 | 7 | 7 | 5 | 3 | 4 | 10 | 17 |
| 18 | 12 | 1 | -8 | -6 | 3 | 9 | 10 | 9 | 4 | 0 | -3 | -2 | 1 | 4 | 3 | -1 | -5 | -4 |
| 0 | 6 | 10 | 2 | -7 | -14 | -17 | -14 | -5 | 3 | 4 | 2 | 2 | 9 | 20 | 30 | 29 | 17 | 2 |
| -10 | -18 | -21 | -22 | -22 | -17 | -7 | 5 | 16 | 19 | 6 | -11 | -16 | -9 | 3 | 12 | 18 | 19 | 12 |
| 1 | -7 | -6 | 1 | 7 | 6 | 6 | 5 | 7 | 9 | 8 | 5 | 0 | -6 | -14 | -19 | -14 | -5 | 2 |
| 1 | -5 | -11 | 12 | 12 | 28 | 27 | -6 | -9 | -3 | 7 | 10 | 3 | -5 | 1 | 17 | 26 | 20 | 9 |
| -1 | -6 | -3 | 3 | -9 | -20 | -21 | -16 | -7 | 3 | 10 | 14 | 18 | 18 | 17 | 21 | 28 | 36 | 38 |
| 33 | 28 | 26 | 25 | 19 | 7 | -2 | -5 | -19 | -30 | -42 | -60 | -74 | -66 | -46 | -28 | -21 | -14 | 3 |
| 13 | 4 | -13 | -30 | -43 | -44 | -24 | 2 | 13 | 17 | 29 | 44 | 56 | 56 | 44 | 26 | 9 | -5 | -14 |
| -21 | -30 | -36 | -20 | -6 | 8 | 16 | 18 | 12 | 2 | -1 | 6 | 15 | 21 | 25 | 23 | 12 | -2 | -2 |
| 15 | 36 | 40 | 34 | 27 | 9 | -11 | -44 | -71 | -81 | -58 | -27 | -3 | 18 | 27 | 18 | 5 | 3 | 11 |
| 19 | 24 | 24 | 19 | 12 | 8 | -1 | -16 | -17 | -7 | 2 | 8 | 9 | 7 | 2 | -5 | -11 | -18 | -26 |
| -30 | -26 | -17 | -14 | -18 | -11 | 1 | 11 | 21 | 22 | 4 | -23 | -36 | -31 | -22 | -10 | 1 | 7 | 11 |
| 14 | 11 | 3 | -3 | -9 | -17 | -22 | -16 | -5 | 4 | 8 | 11 | 21 | 34 | 37 | 30 | 15 | -3 | -7 |
| 8 | 21 | 17 | 4 | -5 | -8 | -7 | -13 | -28 | -40 | -45 | -40 | -26 | -14 | -11 | -15 | -14 | 0 | 17 |
| 27 | 30 | 28 | 21 | 21 | 47 | 57 | 51 | 41 | 28 | 12 | 0 | -2 | -1 | -7 | -16 | -23 | -25 | -29 |
| -36 | -45 | -53 | -54 | -37 | -14 | -9 | -11 | -12 | -7 | -9 | -6 | 6 | 19 | 25 | 20 | 9 | -2 | -10 |
| -10 | -3 | 5 | 10 | 11 | 9 | -3 | -36 | -37 | -28 | -15 | -4 | 1 | -2 | -7 | -12 | -13 | -9 | -1 |
| 7 | 15 | 21 | 25 | 26 | 22 | 9 | -5 | 5 | 18 | 21 | 14 | 8 | 7 | 5 | -3 | -12 | -18 | -15 |
| -12 | -13 | -16 | -19 | -17 | -7 | 3 | 12 | 22 | 14 | 0 | -10 | -16 | -18 | -18 | -16 | -9 | 5 | 21 |
| 32 | 37 | 30 | 14 | -3 | -23 | -21 | -23 | -26 | -26 | -17 | -6 | 2 | 8 | 10 | 13 | 15 | 19 | 22 |
| 12 | -7 | -17 | -13 | -2 | 18 | 19 | 11 | 6 | 6 | 7 | 2 | -8 | -20 | -29 | -29 | -25 | -21 | -16 |
| -11 | -7 | -3 | 3 | 7 | 11 | 14 | 15 | 15 | 8 | 3 | 4 | 6 | 3 | -1 | -1 | 7 | 14 | 19 |
| 22 | 21 | 17 | 12 | 9 | 6 | 3 | -2 | -6 | -21 | -28 | -28 | -22 | -13 | -5 | -1 | -1 | 0 | 3 |
| 8 | 11 | 10 | 7 | 6 | 10 | 18 | 17 | 7 | -2 | -11 | -15 | -10 | -1 | 8 | 16 | 20 | 16 | 10 |
| 4 | -2 | -10 | -16 | -20 | -18 | -13 | -3 | 2 | 6 | 9 | 9 | 5 | -1 | -4 | -5 | -5 | -4 | -2 |
| 2 | 7 | 10 | 11 | 10 | 7 | 7 | 7 | 7 | 7 | 9 | 12 | 12 | 8 | 3 | 1 | -2 | -3 | -3 |
| 0 | -2 | -6 | -9 | -10 | -12 | -15 | -17 | -19 | -18 | -16 | -18 | -21 | -22 | -22 | -18 | -8 | 1 | 7 |
| 8 | 8 | 10 | 17 | 19 | 14 | 6 | 4 | 3 | 0 | -4 | -5 | -2 | 4 | 11 | 14 | 10 | 4 | -2 |
| -5 | -6 | -3 | 3 | 8 | 12 | 13 | 3 | 3 | -1 | -2 | -8 | -8 | -11 | -11 | -7 | 0 | 7 | 11 |
| 11 | 10 | 8 | 2 | -6 | -14 | -18 | -15 | -5 | 1 | 7 | 14 | 21 | 28 | 35 | 39 | 35 | 32 | 29 |
| 26 | 22 | 16 | 9 | 0 | -10 | -16 | -19 | -6 | 5 | 13 | 17 | 13 | 3 | -5 | -10 | -10 | -9 | -6 |
| -4 | -1 | 0 | 0 | -3 | -6 | -9 | -7 | -7 | -9 | -11 | -15 | -20 | -26 | -31 | -35 | -36 | -34 | -30 |
| -26 | -23 | -18 | -12 | -4 | 3 | 8 | 13 | 15 | 16 | 16 | 15 | 15 | 11 | 6 | 3 | 3 | 6 | 8 |
| 10 | 10 | 9 | 7 | 6 | 5 | 5 | 4 | 4 | 7 | 13 | 21 | 27 | 27 | 21 | 12 | 3 | -4 | -7 |
| -9 | -9 | -9 | -7 | -3 | 0 | 2 | 0 | -2 | -4 | -4 | -4 | -5 | -7 | -10 | -10 | -9 | -7 | -4 |
| 2 | 10 | 16 | 19 | 21 | 19 | 15 | 7 | -4 | -20 | -22 | -21 | -19 | -20 | -23 | -25 | -27 | -27 | -24 |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -20 | -17 | -14 | -10 | -5 | 0 | 4 | 5 | 6 | 8 | 12 | 16 | 17 | 17 | 19 | 22 | 23 | 20 | 17 | 14 |
| 14 | 15 | 13 | 7 | 3 | 3 | 5 | 3 | -1 | -2 | -2 | -1 | -1 | -2 | -4 | -6 | -6 | -5 | -6 | -3 |
| -9 | -10 | -7 | -3 | 1 | 2 | 1 | 1 | 3 | 5 | 7 | 9 | 8 | 6 | 8 | 7 | 4 | 2 | -1 | -6 |
| -3 | 1 | 4 | 0 | -4 | -9 | -11 | -10 | -8 | -9 | -11 | -13 | -14 | -17 | -18 | -15 | -10 | -5 | 0 | 6 |
| 10 | 14 | 14 | 11 | 9 | 10 | 12 | 15 | 18 | 20 | 20 | 20 | 20 | 18 | 14 | 10 | 5 | -1 | 7 | -12 |
| -20 | -25 | -28 | -27 | -27 | -28 | -28 | -25 | -20 | -14 | -8 | -1 | 2 | 5 | 8 | 13 | 17 | 15 | 7 | 0 |
| -4 | -6 | -7 | -8 | -9 | -9 | -5 | -3 | -3 | -2 | 1 | 6 | 9 | 10 | 9 | 8 | 5 | 4 | 3 | 3 |
| 2 | 2 | 6 | 10 | 13 | 15 | 16 | 14 | 14 | 15 | 18 | 19 | 15 | 7 | 0 | -5 | -8 | -11 | -15 | -18 |
| -22 | -23 | -20 | -19 | -20 | -21 | -18 | -10 | -1 | 7 | 13 | 14 | 11 | 7 | 6 | 8 | 10 | 13 | 16 | 19 |
| 21 | 22 | 17 | 11 | 6 | 4 | 5 | 7 | 6 | 5 | 1 | -3 | -6 | -8 | -10 | -11 | -12 | -6 | -6 | -2 |
| 0 | 1 | 1 | 1 | 3 | 6 | 10 | 13 | 12 | 10 | 8 | 7 | 6 | 5 | 3 | -1 | -6 | -10 | -14 | -18 |
| -21 | -17 | -15 | -13 | -11 | -7 | -2 | 2 | 5 | 7 | 5 | 1 | -2 | -4 | -6 | -8 | -7 | -7 | -6 | -5 |
| -3 | -1 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | -3 | -5 | -7 | -8 | -6 | -3 | 0 | 3 | 4 | 2 |
| 1 | 3 | 6 | 7 | 7 | 8 | 7 | 7 | 0 | 1 | 3 | 4 | 2 | 0 | -1 | -1 | -1 | -2 | -2 | -1 |
| 1 | 4 | 6 | 7 | 6 | 4 | 0 | 3 | -13 | -17 | -19 | -19 | -17 | -16 | -17 | -19 | -17 | -10 | -6 | -7 |
| -8 | -8 | -6 | -4 | -1 | 3 | 6 | 9 | 11 | 13 | 14 | 14 | 14 | 15 | 16 | 18 | 21 | 24 | 25 | 23 |
| 19 | 13 | 9 | 6 | 5 | 5 | 5 | 6 | 5 | 2 | -3 | -7 | -7 | -5 | -4 | -6 | -6 | -3 | 2 | 7 |
| 7 | 6 | 5 | 3 | 2 | 1 | 0 | 0 | -1 | -1 | -1 | -1 | -2 | 1 | 4 | 5 | 4 | 3 | 0 | -4 |
| -8 | -7 | -3 | 2 | 2 | -6 | -10 | -11 | -10 | -9 | -9 | -9 | -9 | -8 | -8 | -7 | -7 | -7 | -7 | -7 |
| -9 | -4 | -1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | -1 | -2 | -3 | -4 | -5 | -7 | -8 | -8 |
| -5 | -4 | -3 | -1 | 0 | -1 | -5 | -2 | 0 | 1 | -2 | -6 | -9 | -10 | -8 | -6 | -4 | -4 | -4 | -5 |
| 11 | 10 | 7 | 5 | 3 | 1 | 1 | -1 | -3 | -5 | -4 | -2 | -6 | -4 | 0 | -3 | 6 | 8 | 10 | 11 |
| -2 | 1 | -1 | -1 | -1 | -3 | -6 | -7 | -6 | -5 | -3 | -2 | -4 | -5 | -2 | 0 | 2 | 4 | 6 | 6 |
| 6 | 6 | 5 | 1 | -3 | -3 | -2 | -3 | -4 | -5 | -6 | -5 | -5 | -6 | -6 | -4 | -2 | 0 | 1 | 4 |
| 5 | 5 | 5 | 7 | 9 | 11 | 11 | 9 | 6 | 2 | 0 | -2 | -3 | 0 | 3 | 5 | 6 | 6 | 6 | 5 |
| 4 | 4 | 3 | 2 | 0 | -3 | -6 | -8 | -11 | -12 | -10 | -8 | -4 | -1 | -1 | -1 | -2 | -3 | -3 | -3 |
| -3 | -3 | -2 | -2 | -1 | -1 | -1 | -1 | -1 | -2 | -2 | -3 | -4 | -5 | -8 | -10 | -11 | -10 | -8 | -7 |
| 4 | 4 | 3 | 2 | 0 | -3 | -6 | -8 | -11 | -12 | -10 | -8 | -4 | -1 | -1 | -1 | -2 | -3 | -3 | -3 |
| -3 | -3 | -2 | -2 | -1 | -1 | -1 | -1 | -1 | -2 | -2 | -3 | -4 | -5 | -7 | -8 | -8 | -8 | -7 | -7 |
| -6 | -5 | -3 | -1 | 1 | 2 | 4 | 6 | 6 | 6 | 4 | -5 | -5 | -6 | -7 | -8 | -8 | -8 | -6 | -7 |
| -7 | -6 | -3 | -3 | -4 | -5 | -6 | -6 | -6 | -5 | -4 | 2 | -1 | -3 | -4 | -4 | -5 | -5 | -6 | -7 |
| 9 | 9 | 9 | 9 | 8 | 6 | 5 | 5 | 4 | 4 | -4 | -2 | 7 | 7 | 5 | 6 | 7 | | | |

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0 | -1 | -1 | 0 | 1 | 2 | 4 | 4 | 2 | 0 | -1 | -2 | -2 | -2 | -1 | -1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | -1 | -1 | -2 | -2 | -2 | -2 | -2 | -1 | 0 | 0 | -2 | 1 | 2 | 3 | 3 | 4 |
| 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | -1 |
| -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -2 |
| -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -3 |
| 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 |
| -3 | -2 | -2 | -2 | -1 | -1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 7 | 7 | 7 | 7 | 6 | 5 | 4 | 3 | 3 | 5 | 4 | 3 | 3 | 5 | 9 | 10 | 9 | 8 | 8 | |

IIV333 67.008.0 STATION NO. 72 INSTR PERIOD = 0.047 SEC DAMPING = 0.540
 NORTHERN CALIFORNIA EARTHQUAKE DEC 18, 1967 - 0925 PST
 BETHLEHEM BLDG., 12TH FL., SAN FRANCISCO, CAL.
 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.

EPICENTER - 37 00 36N, 121 47 18W
 COMP NORTH 37 47 00N, 122 24 00W

PEAK VALS ACCLN = -9.5 CM/SEC/SEC AT 0.42 SEC VELO = -1.3 CM/SEC AT 2.26 SEC DISP = -1.3 CM AT 4.30 SEC

INITIAL VELO = 0.53372 CM/SEC INITIAL DISP = 0.34972 CM
 1465 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 11 | 16 | 20 | 23 | 25 | 22 | 19 | 16 | 14 | 13 | 11 | 15 | 27 | 35 | 28 | 16 | 4 | -11 | -43 | -74 |
| -82 | -95 | -94 | -76 | -70 | -65 | -63 | -63 | -63 | -56 | -45 | -34 | -23 | -12 | -9 | -14 | -15 | -16 | -18 | -21 |
| -22 | -14 | -7 | -9 | 14 | -21 | -24 | -21 | -10 | 2 | 10 | 18 | 19 | 26 | 41 | 47 | 56 | 71 | 81 | 79 |
| 68 | 63 | 57 | 45 | 17 | -6 | -10 | -7 | -7 | -1 | 6 | 8 | 13 | 19 | 21 | 17 | 10 | 3 | -3 | -8 |
| -13 | -30 | -41 | -39 | -33 | -28 | -26 | -26 | -26 | -26 | -26 | -26 | -28 | -30 | -31 | -33 | -35 | -36 | -38 | -37 |
| -33 | -29 | -24 | -19 | -15 | -11 | -7 | -5 | -4 | -1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 18 |
| 25 | 33 | 42 | 51 | 61 | 64 | 62 | 58 | 57 | 62 | 63 | 63 | 63 | 66 | 66 | 53 | 20 | -6 | -31 | -58 |
| -73 | -66 | -61 | -55 | -47 | -40 | -31 | -21 | -17 | -12 | -6 | 0 | 13 | 22 | 26 | 29 | 28 | 24 | 20 | 19 |
| 15 | 8 | 1 | -6 | -10 | -15 | -19 | -20 | -23 | -31 | -35 | -39 | -45 | -51 | -48 | -40 | -33 | -23 | -11 | 4 |
| 21 | 37 | 52 | 56 | 47 | 33 | 21 | 10 | 0 | -8 | -15 | -21 | -22 | -24 | -17 | -6 | 1 | 5 | 4 | 1 |
| 0 | -2 | -7 | -10 | -9 | -5 | 5 | 16 | 24 | 35 | 44 | 50 | 51 | 48 | 45 | 41 | 33 | 29 | 30 | 36 |
| 39 | 28 | 16 | 7 | 6 | 15 | 23 | 30 | 36 | 36 | 32 | 27 | 21 | 14 | 5 | -2 | -4 | -2 | 3 | 4 |
| 4 | 4 | 2 | -8 | -29 | -41 | -50 | -54 | -43 | -35 | -27 | -14 | -4 | -1 | -5 | -13 | -19 | -20 | -19 | -14 |
| -9 | -3 | 1 | 4 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 6 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 7 | 6 |
| 4 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 8 | 9 | 11 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 8 | -4 |
| -13 | -20 | -26 | -29 | -26 | -20 | -14 | -7 | 1 | 7 | 9 | 9 | 9 | 9 | 9 | 5 | -4 | -9 | -10 | -10 |
| -10 | -11 | -14 | -20 | -28 | -39 | -44 | -44 | -42 | -35 | -30 | -24 | -17 | -10 | -3 | 2 | 6 | 8 | 10 | 10 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 3 | 7 | 10 | 13 |
| 14 | 15 | 16 | 16 | 16 | 15 | 14 | 12 | 10 | 5 | 0 | -5 | -8 | -10 | -12 | -14 | -16 | -18 | -18 | -18 |
| -18 | -18 | -16 | -14 | -11 | -9 | -10 | -10 | -11 | -12 | -13 | -15 | -18 | -21 | -26 | -32 | -38 | -43 | -48 | -52 |
| -52 | -51 | -47 | -40 | -34 | -30 | -24 | -16 | -8 | -2 | 5 | 11 | 17 | 22 | 28 | 34 | 42 | 48 | 46 | 42 |
| 38 | 33 | 29 | 24 | 20 | 16 | 12 | 9 | 9 | 6 | 5 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 2 | 4 | 5 | 7 | 9 | 9 | 6 | 1 | -7 | -14 | -20 | -26 | -27 | -24 | -21 | -19 | -19 | -19 |
| -19 | -17 | -12 | -5 | 1 | 8 | 15 | 21 | 24 | 25 | 23 | 18 | 13 | 8 | 4 | 2 | 0 | -1 | -2 | -4 |
| -5 | -7 | -8 | -9 | -11 | -12 | -13 | -13 | -12 | -10 | -8 | -5 | -2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 | 0 | -2 | -3 | -3 | 0 | 2 | 5 | 9 | 13 | 16 | 20 | 22 | 25 | 27 | 30 |
| 32 | 34 | 36 | 36 | 33 | 26 | 17 | 8 | -1 | -9 | -15 | -19 | -20 | -19 | -17 | -16 | -14 | -12 | -10 | -9 |
| -7 | -6 | -5 | -4 | -3 | -3 | -3 | -3 | -4 | -7 | -9 | -12 | -16 | -18 | -18 | -18 | -18 | -18 | -17 | -16 |
| -14 | -12 | -9 | -6 | -3 | 0 | 3 | 5 | 5 | 5 | 4 | 1 | -1 | -4 | -6 | -7 | -8 | -9 | -9 | -9 |
| -9 | -9 | -9 | -9 | -9 | -7 | -4 | 0 | 3 | 8 | 12 | 15 | 16 | 16 | 16 | 17 | 20 | 23 | 25 | 23 |
| 19 | 13 | 5 | 0 | -1 | -2 | -3 | -3 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -3 | -5 | -5 |
| -6 | -8 | -9 | -11 | -13 | -16 | -19 | -23 | -26 | -30 | -32 | -33 | -34 | -31 | -26 | -21 | -15 | -10 | -5 | -1 |
| 3 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 9 | 8 | 7 | 6 | 5 | 4 | 4 | 4 | 3 | 3 | 3 | 3 |
| 3 | 3 | 3 | 4 | 6 | 10 | 13 | 16 | 18 | 18 | 18 | 18 | 17 | 16 | 14 | 12 | 11 | 9 | 8 | 6 |
| 5 | 3 | 2 | 0 | -2 | -3 | -5 | -6 | -7 | -8 | -8 | -8 | -8 | -8 | -8 | -9 | -11 | -12 | -12 | -9 |
| -7 | -4 | -3 | -3 | -3 | -3 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -4 | -5 | -5 | -5 | -7 | -9 |
| -11 | -12 | -14 | -15 | -17 | -19 | -18 | -17 | -15 | -12 | -9 | -5 | -2 | 1 | 6 | 11 | 15 | 19 | 24 | 28 |
| 31 | 36 | 41 | 39 | 33 | 30 | 26 | 24 | 22 | 20 | 16 | 13 | 9 | 7 | 6 | 4 | 2 | 0 | -3 | -6 |
| -9 | -11 | -13 | -14 | -15 | -15 | -15 | -13 | -11 | -8 | -6 | -5 | -6 | -5 | -5 | -5 | -5 | -5 | -5 | -6 |
| -6 | -6 | -6 | -6 | -6 | -6 | -5 | -3 | -2 | -1 | 0 | 1 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 6 |
| 7 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 6 | 5 | 4 | 3 | 2 |
| 1 | 0 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

[illegible]

[illegible]

IIV333 67.008.0 NORTHERN CALIFORNIA EARTHQUAKE DEC 18, 1967 - 0925 PST
STATION NO. 72 BETHLEHEM BLDG., 12TH FL., SAN FRANCISCO, CAL.
INSTR PERIOD = 0.045 SEC DAMPING = 0.540 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.070 AND 25 CYC/SEC.
PEAK VALS ACLN = 9.9 CM/SEC/SEC AT 0.58 SEC VELO = 1.0 CM/SEC AT 1.06 SEC DISP = -1.2 CM AT 21.36 SEC

[illegible]

California Institute of Technology
Earthquake Engineering Research Laboratory

The following reports of the Earthquake Engineering Research Laboratory from 1970 on can be obtained from the National Technical Information Service, Springfield, Virginia 22121:

Strong-Motion Earthquake Accelerograms
Digitized and Plotted Data
Volume I

| <u>Part</u> | <u>Report No.</u> | <u>NTIS Accession No.</u> |
|-------------|-------------------|-------------------------------|
| A | EERL 70-20 | PB-287 847 |
| B | EERL 70-21 | PB-196 823 |
| C | EERL 71-20 | PB-204 364 |
| D | EERL 71-21 | PB-208 529 |
| E | EERL 71-22 | PB-209 749 |
| F | EERL 71-23 | PB-210 619 |
| G | EERL 72-20 | PB-211 357 |
| H | EERL 72-21 | PB-211 781 |
| I | EERL 72-22 | PB-213 422 |
| J | EERL 72-23 | PB-213 423 |
| K | EERL 72-24 | PB-213 424 |
| L | EERL 72-25 | PB-215 639 |
| M | EERL 72-26 | PB-220 554 |
| N | EERL 72-27 | PB-223 023 |
| O | EERL 73-20 | PB-222 417 |
| P | EERL 73-21 | PB-227 481/AS |
| Q | EERL 73-22 | PB-232 315/AS |
| R | EERL 73-23 | PB-239 585/AS |

Strong-Motion Earthquake Accelerograms
Digitized and Plotted Data

Corrected Accelerograms and Integrated
Ground Velocity and Displacement Curves

Volume II

| <u>Part</u> | <u>Report No.</u> | NTIS <u>Accession No.</u> |
|-------------|-------------------|------------------------------|
| A | EERL 71-50 | PB-208 283 |
| B | EERL 72-50 | PB-220 161 |
| C | EERL 72-51 | PB-220 162 |
| D | EERL 72-52 | PB-220 836 |
| E | EERL 73-50 | PB-223 024 |
| F | EERL 73-51 | PB-224 977/9AS |
| G | EERL 73-52 | PB-229 239/AS |
| H | EERL 74-50 | PB-231 225/AS |
| I | EERL 74-51 | PB-232 316/AS |
| J, K | EERL 74-52 | PB-233 257/AS |
| L, M | EERL 74-53 | PB-237 174/AS |
| N | EERL 74-54 | PB-236 399/AS |
| O, P | EERL 74-55 | PB-239 586/AS |
| Q, R | EERL 74-56 | PB-239 587/AS |

Analyses of Strong-Motion Earthquake Accelerograms
Response Spectra

Volume III

| <u>Part</u> | <u>Report No.</u> | NTIS <u>Accession No.</u> |
|-------------|-------------------|------------------------------|
| A | EERL 72-80 | PB-212 602 |
| B | EERL 73-80 | PB-221 256 |
| C | EERL 73-81 | PB-223 025 |
| D | EERL 73-82 | PB-227 469/AS |
| E | EERL 73-83 | PB-227 470/AS |
| F | EERL 73-84 | PB-227 471/AS |
| G | EERL 73-85 | PB-231 223/AS |
| H | EERL 74-80 | PB-231 319/AS |
| I | EERL 74-81 | PB-232 326/AS |
| J, K, L | EERL 74-82 | PB-236 110/AS |
| M, N | EERL 74-83 | PB-236 400/AS |
| O, P | EERL 74-84 | PB-238 102/AS |

Analyses of Strong-Motion Earthquake Accelerograms
Fourier Amplitude Spectra

Volume IV

| <u>Part</u> | <u>Report No.</u> | NTIS <u>Accession No.</u> |
|-------------|-------------------|------------------------------|
| A | EERL 72-100 | PB-212 603 |
| B | EERL 73-100 | PB-220 837 |
| C | EERL 73-101 | PB-222 514 |
| D | EERL 73-102 | PB-222 969/AS |
| E | EERL 73-103 | PB-229 240/AS |
| F | EERL 73-104 | PB-229 241/AS |
| G | EERL 73-105 | PB-231 224/AS |
| H | EERL 74-100 | PB-232 327/AS |
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